DEPARTMENT OF THE NAVY FISCAL YEAR (FY) 2002 AMENDED BUDGET SUBMISSION



JUSTIFICATION OF ESTIMATES JUNE 2001

OTHER PROCUREMENT, NAVY BUDGET ACTIVITY 4

UNCLASSIFIED

DEPARTMENT OF THE NAVY

FY 2002 PROCUREMENT PROGRAM

SUMMARY JUNE 2001 (\$ IN MILLIONS)

APPROPRIATION: OTHER PROCUREMENT, NAVY	PPROPRIATION: OTHER PROCUREMENT, NAVY								
ACTIVITY	FY 2000	FY 2001	FY 2002						
01. SHIPS SUPPORT EQUIPMENT	899.4	619.7	742.0						
02. COMMUNICATIONS AND ELECTRONICS EQUIPMENT	1,932.7	1,556.7	1,411.9						
03. AVIATION SUPPORT EQUIPMENT	246.5	257.7	228.4						
04. ORDNANCE SUPPORT EQUIPMENT	629.1	470.4	663.2						
05. CIVIL ENGINEERING SUPPORT EQUIPMENT	63.9	108.4	84.3						
06. SUPPLY SUPPORT EQUIPMENT	147.6	150.1	512.0						
07. PERSONNEL AND COMMAND SUPPORT EQUIPMENT	104.3	109.9	221.6						
08. SPARES AND REPAIR PARTS	260.6	206.4	234.1						
TOTAL OTHER PROCUREMENT, NAVY	4,284.1	3,479.3	4,097.6						

UNCLASSIFIED

FY 2002 PROCUREMENT PROGRAM EXHIBIT P-1

APPROPRIATION: 1810N OTHER PROCUREMENT, NAVY DATE: JUNE 2001

MILLIONS OF DOLLARS

		MILLIONS OF DOLLARS						_	
LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY QUANTITY	2000 COST		2001 COST	FY :	2002 COST	S E C
									-
	CTIVITY 01: SHIPS SUPPORT EQUIP	PMENT							
SHIP PR	COPULSION EQUIPMENT								
1 LM-2	2500 GAS TURBINE	А		6.7		6.9		7.1	U
2 ALLI	SON 501K GAS TURBINE	А		8.2		6.2		6.9	U
PROPELL	ERS								
3 SUBM	MARINE PROPELLERS	А				3.7		4.5	U
NAVIGAT	CION EQUIPMENT								
4 OTHE	CR NAVIGATION EQUIPMENT	A		94.5		50.0		45.9	U
UNDERWA	Y REPLENISHMENT EQUIPMENT								
5 UNDE	RWAY REPLENISHMENT EQUIPMENT	A		14.5		8.3		1.8	U
PERISCO	PES								
6 SUB	PERISCOPES & IMAGING EQUIP	А		62.2		18.8		29.2	U
OTHER S	SHIPBOARD EQUIPMENT								
7 FIRE	FIGHTING EQUIPMENT	А		15.5		16.7		17.5	U
8 COMM	MAND AND CONTROL SWITCHBOARD	А		17.0		10.4		9.1	U
9 POLI	UTION CONTROL EQUIPMENT	В		103.7		47.4		67.0	U
10 SUBM	MARINE SUPPORT EQUIPMENT	А		51.2		11.3		6.8	U
11 SUBM	MARINE BATTERIES	А		13.2		12.3		10.9	U
12 STRA	TEGIC PLATFORM SUPPORT EQUIP	A		20.8		18.0		11.3	U
13 DSSP	EQUIPMENT	А		7.8		5.3		7.5	U
14 LCAC	!	А		4.0		3.5			U
15 MINE	SWEEPING EQUIPMENT	А		20.5		16.4		20.2	U

UNCLASSIFIED

DEPARTMENT OF THE NAVY

FY 2002 PROCUREMENT PROGRAM EXHIBIT P-1

APPROPRIATION: 1810N OTHER PROCUREMENT, NAVY DATE: JUNE 2001

MILLIONS OF DOLLARS

		MILLIONS OF DOLLARS				
LINE NO	ITEM NOMENCLATURE	CODE	QUANTITY COST	FY 2001 QUANTITY COST	QUANTITY COST	
16 ITEMS	LESS THAN \$5 MILLION	А	125.1	64.9	79.3	U
17 SURFA	CE IMA	А		2.0		U
18 SUBMA	RINE LIFE SUPPORT SYSTEM	А	1.8	4.8	4.9	U
REACTOR	PLANT EQUIPMENT					
19 REACT	OR COMPONENTS	А	197.4	201.5	208.8	U
OCEAN EN	GINEERING					
20 DIVIN	G AND SALVAGE EQUIPMENT	A	5.4	5.6	5.7	U
21 EOD U	NDERWATER EQUIPMENT	В	*			U
SMALL BO	ATS					
22 STAND	ARD BOATS	A	3.2	2.7	32.2	U
TRAINING	EQUIPMENT					
23 OTHER	SHIPS TRAINING EQUIPMENT	A	3.8	3.3	16.8	U
PRODUCTI	ON FACILITIES EQUIPMENT					
24 OPERA	TING FORCES IPE	A	7.7	19.5	27.5	U
OTHER SH	IP SUPPORT					
25 NUCLE	AR ALTERATIONS	A	108.0	80.1	121.1	U
DRUG INT	ERDICTION SUPPORT					
26 DRUG	INTERDICTION SUPPORT	A	6.9			U
TOTAL SHI	PS SUPPORT EQUIPMENT		899.4	619.7		
	TIVITY 02: COMMUNICATIONS AND	O ELECTRO	NICS EQUIPMENT			
SHIP RAD						
27 AN/SP	S-49	А	2.2			U

UNCLASSIFIED

APPROPRIATION: 1810N OTHER PROCUREMENT, NAVY DATE: JUNE 2001

MILLIONS OF DOLLARS

EXHIBIT P-1

			MILLIONS OF DOLLARS S							
LINE NO	ITEM NOMENCLATURE			QUANTITY COST	FY 2002 QUANTITY COST					
28 RAD <i>I</i>	AR SUPPORT	А	19.8	24.8						
29 TISS	5	А	1.8							
SHIP SC	DNARS									
30 AN/S	SQQ-89 SURF ASW COMBAT SYSTEM	A	31.3	14.2	16.6					
31 SSN	ACOUSTICS	A	211.9	111.6	113.0					
32 UNDE	ERSEA WARFARE SUPPORT EQUIPMENT	А	11.5	2.8	4.3					
33 SURF	FACE SONAR WINDOWS AND DOME	А		5.0						
34 SONA	AR SUPPORT EQUIPMENT	A	3.0							
35 SONA	AR SWITCHES AND TRANSDUCERS	А	13.2	10.6	10.8					
ASW ELE	ECTRONIC EQUIPMENT									
36 SUBM	MARINE ACOUSTIC WARFARE SYSTEM	А	13.0	10.6	12.6					
37 FIXE	ED SURVEILLANCE SYSTEM	А	16.2	29.6	33.7					
38 SURT	TASS	А	7.1	5.5	17.7					
39 ASW	OPERATIONS CENTER	А	4.3	6.2	6.1					
ELECTRO	ONIC WARFARE EQUIPMENT									
40 AN/S	SLQ-32	А	1.9		2.0					
41 INFO	DRMATION WARFARE SYSTEMS	А	4.0	3.9	2.9					
RECONNA	AISSANCE EQUIPMENT									
42 SHIE	PBOARD IW EXPLOIT	A	50.3	60.5	57.5					
43 COMM	MON HIGH BANDWIDTH DATA LINK	A	35.3							
SUBMARI	INE SURVEILLANCE EQUIPMENT									
44 SUBM	MARINE SUPPORT EQUIPMENT PROG	A	39.3	17.2	22.9					

UNCLASSIFIED

FY 2002 PROCUREMENT PROGRAM EXHIBIT P-1

APPROPRIATION: 1810N OTHER PROCUREMENT, NAVY DATE: JUNE 2001

MILLIONS OF DOLLARS

MILLIONS OF DOLLARS				.S	~	
	LINE NO ITEM NOMENCLATURE			FY 2001 QUANTITY COST	FY 2002 QUANTITY COST	S E C
	OTHER SHIP ELECTRONIC EQUIPMENT					
	45 NAVY TACTICAL DATA SYSTEM	А	28.8	6.9		U
	46 COOPERATIVE ENGAGEMENT CAPABILITY	В	59.4	33.5	77.1	U
	47 GCCS-M EQUIPMENT	А	25.6	43.1	61.1	U
	48 NAVAL TACTICAL COMMAND SUPPORT SYST	EM A	57.7	54.4	42.8	U
	49 ATDLS	А	18.4	19.0	10.0	U
	50 MINESWEEPING SYSTEM REPLACEMENT	А	18.0	12.8	8.9	U
	51 SHALLOW WATER MCM	В	11.3	16.2		U
	52 NAVSTAR GPS RECEIVERS (SPACE)	А	8.6	9.5	9.9	U
	53 ARMED FORCES RADIO AND TV	А	9.4	9.0	14.6	U
	54 STRATEGIC PLATFORM SUPPORT EQUIP	А	24.1	15.2	11.4	U
	TRAINING EQUIPMENT					
	55 OTHER SPAWAR TRAINING EQUIPMENT	А	1.0	1.3	1.8	U
	56 OTHER TRAINING EQUIPMENT	А	50.3	29.1	37.2	U
	AVIATION ELECTRONIC EQUIPMENT					
	57 MATCALS	А	10.6	4.2	1.0	U
	58 SHIPBOARD AIR TRAFFIC CONTROL	В	7.4	7.8	8.0	U
	59 AUTOMATIC CARRIER LANDING SYSTEM	А	17.9	18.2	15.6	U
	60 NATIONAL AIR SPACE SYSTEM	В	34.3	30.0	43.6	U
	61 AIR STATION SUPPORT EQUIPMENT	А	8.8	6.6	7.4	U
	62 MICROWAVE LANDING SYSTEM	А	5.2	5.0	5.4	U
	63 FACSFAC	А	3.6	4.2	1.2	U
	64 ID SYSTEMS	А	9.2	14.0	18.3	U

UNCLASSIFIED

DEPARTMENT OF THE NAVY

FY 2002 PROCUREMENT PROGRAM EXHIBIT P-1

76 ITEMS LESS THAN \$5 MILLION

78 SHIP COMMUNICATIONS AUTOMATION

SUBMARINE COMMUNICATIONS

APPROPRIATION: 1810N OTHER PROCUREMENT, NAVY				DATE: JUNE 2001				
			MILLIONS OF DOLLAR	S				
			FY 2001 QUANTITY COST		S E C			
65 SURFACE IDENTIFICATION SYSTEMS	А	.6	1.5		Ū			
66 TAC A/C MISSION PLANNING SYS(TAMPS)	A	20.5	11.8	13.4	U			
OTHER SHORE ELECTRONIC EQUIPMENT								
67 GCCS-M EQUIPMENT ASHORE	А	9.1			U			
68 TADIX-B	А	18.3	6.0		U			
69 NAVAL SPACE SURVEILLANCE SYSTEM	А	7.6	2.7	4.9	U			
70 GCCS-M EQUIPMENT TACTICAL/MOBILE	А	13.7			U			
71 COMMON IMAGERY GROUND SURFACE SYSTEMS	А	40.3	46.2	58.4	U			
72 RADIAC	А	4.2	8.2	7.9	U			
73 GPETE	А	7.6	7.3	4.7	U			
74 INTEG COMBAT SYSTEM TEST FACILITY	А	4.3	4.4	4.5	U			
75 EMI CONTROL INSTRUMENTATION	A	6.4	8.3	5.2	U			

SHIPBOARD COMMUNICATIONS			
77 SHIPBOARD TACTICAL COMMUNICATIONS	A	25.8	U

13.9

229.1

A

79 SHIP COMM ITEMS UNDER \$5 MILLION 26.8 U 80 COMMUNICATIONS ITEMS UNDER \$5M Α 43.1 24.3 U

81 SHORE LF/VLF COMMUNICATIONS	A	35.1	31.1	17.5 U

82 SUBMARINE COMMUNICATION EQUIPMENT Α 83.2 77.2 89.3 U SATELLITE COMMUNICATIONS

83 SATCOM SHIP TERMINALS (SPACE) A 219.4 U

UNCLASSIFIED

11.8

184.4

6.3 U

121.2 U

UNCLASSIFIED

FY 2002 PROCUREMENT PROGRAM EXHIBIT P-1

APPROPRIATION: 1810N OTHER PROCUREMENT, NAVY DATE: JUNE 2001

MILLIONS OF DOLLARS

		MILLIONS OF DOLLARS S							
LINE NO	ITEM NOMENCLATURE	IDENT CODE	QUANTITY COST	~	FY 2002 QUANTITY COST	E			
84 SATE	ELLITE COMMUNICATIONS SYSTEMS	А		201.0	198.1	U			
85 SATO	COM SHORE TERMINALS (SPACE)	А	56.1			U			
SHORE C	COMMUNICATIONS								
86 JCS	COMMUNICATIONS EQUIPMENT	А	3.6	2.4	4.6	U			
87 ELEC	CTRICAL POWER SYSTEMS	А			1.3	U			
88 NSIF	PS	А	4.8	1.8	14.2	U			
89 JEDM	MICS	А	16.9	11.9		U			
90 NAVA	AL SHORE COMMUNICATIONS	А	124.1	163.1	66.8	U			
CRYPTOG	GRAPHIC EQUIPMENT								
91 INFO	SYSTEMS SECURITY PROGRAM (ISSP)	А	61.6	58.0	78.2	U			
CRYPTOL	LOGIC EQUIPMENT								
92 SPEC	CIAL DCP	А		14.8		U			
93 CRYP	PTOLOGIC COMMUNICATIONS EQUIP	А	20.6	17.0	15.6	U			
DRUG IN	TERDICTION SUPPORT								
94 OTHE	ER DRUG INTERDICTION SUPPORT	А	3.8			U			
TOTAL CC	OMMUNICATIONS AND ELECTRONICS EQUI	PMENT	1,932.7	1,556.7	1,411.9				
	ACTIVITY 03: AVIATION SUPPORT EQU	IPMENT							
SONOBUC	DYS								
95 PASS	SIVE SONOBUOYS (NON-BEAM FORMING)	А	20.1			U			
96 AN/S	SSQ-62 (DICASS)	А	16.6			U			
97 AN/S	SSQ-101 (ADAR)	В	16.6			U			
98 SONC	DBUOYS - ALL TYPES	А		57.5	57.9	U			

UNCLASSIFIED

EXHIBIT P-1

APPROPRIATION: 1810N OTHER PROCUREMENT, NAVY DATE: JUNE 2001

MILLIONS OF DOLLARS LINE IDENT FY 2000 FY 2001 FY 2002 E NO ITEM NOMENCLATURE CODE QUANTITY COST QUANTITY COST QUANTITY COST C -----99 MISCELLANEOUS SONOBUOYS LESS THAN \$5 M A ŢŢ 2.2 AIRCRAFT SUPPORT EQUIPMENT 22.8 38.7 10.1 U 100 WEAPONS RANGE SUPPORT EQUIPMENT 101 EXPEDITIONARY AIRFIELDS .1 3.2 7.6 U Α 102 AIRCRAFT REARMING EQUIPMENT 12.2 10.5 12.3 II A 103 AIRCRAFT LAUNCH & RECOVERY EQUIPMENT A 39.6 35.8 27.5 U 104 METEOROLOGICAL EOUIPMENT Α 31.6 30.6 29.8 U 105 OTHER PHOTOGRAPHIC EQUIPMENT Α 1.6 1.7 1.7 U 106 AVIATION LIFE SUPPORT 36.0 26.2 21.0 U 107 AIRBORNE MINE COUNTERMEASURES 39.9 31.8 46.9 U 108 OTHER AVIATION SUPPORT EQUIPMENT 7.3 21.7 13.6 U TOTAL AVIATION SUPPORT EQUIPMENT 246.5 257.7 228.4 BUDGET ACTIVITY 04: ORDNANCE SUPPORT EQUIPMENT SHIP GUN SYSTEM EQUIPMENT 109 GUN FIRE CONTROL EQUIPMENT 4.4 17.9 U Α 6.8 110 NAVAL FIRES CONTROL SYSTEM .6 U SHIP MISSILE SYSTEMS EQUIPMENT 8.1 111 NATO SEASPARROW Α 2.1 10.7 U 112 RAM GMLS 37.9 36.5 Α 31.8 U 113 SHIP SELF DEFENSE SYSTEM 37.3 9.3 34.4 U

PAGE N-27

79.5

79.7

29.4

69.3

155.1 U

61.2 U

114 AEGIS SUPPORT EQUIPMENT

115 SURFACE TOMAHAWK SUPPORT EQUIPMENT

UNCLASSIFIED

FY 2002 PROCUREMENT PROGRAM EXHIBIT P-1

APPROPRIATION: 1810N OTHER PROCUREMENT, NAVY DATE: JUNE 2001

		MILLIONS OF DOLLARS						
LINE NO	ITEM NOMENCLATURE				FY 2002 QUANTITY COST	S E C		
116 SUB	MARINE TOMAHAWK SUPPORT EQUIP	А	3.5	2.8	3.1	U		
117 VER:	FICAL LAUNCH SYSTEMS	A	5.3	6.9	6.9	U		
FBM SUI	PPORT EQUIPMENT							
118 STR	ATEGIC PLATFORM SUPPORT EQUIP	A	9.2	2.9	9.8	U		
119 STR	ATEGIC MISSILE SYSTEMS EQUIP	A	236.7	165.1	205.1	U		
ASW SUI	PPORT EQUIPMENT							
120 SSN	COMBAT CONTROL SYSTEMS	А	35.4	19.4	40.7	U		
121 SUB	MARINE ASW SUPPORT EQUIPMENT	A	4.1	3.9	5.9	U		
122 SURI	FACE ASW SUPPORT EQUIPMENT	A	6.0	13.1	3.2	U		
123 ASW	RANGE SUPPORT EQUIPMENT	A	6.3	6.8	6.0	U		
OTHER (ORDNANCE SUPPORT EQUIPMENT							
124 EXP	LOSIVE ORDNANCE DISPOSAL EQUIP	В	8.8	7.5	9.4	U		
125 ITEN	MS LESS THAN \$5 MILLION	A	4.3	5.6	5.8	U		
OTHER I	EXPENDABLE ORDNANCE							
126 ANT	I-SHIP MISSILE DECOY SYSTEM	A	32.1	37.8	27.5	U		
127 SURI	FACE TRAINING DEVICE MODS	А	7.0	7.9	7.3	U		
128 SUB	MARINE TRAINING DEVICE MODS	A	27.1	33.7	20.8	U		
TOTAL OF	RDNANCE SUPPORT EQUIPMENT		629.1	470.4	663.2			
BUDGET A	ACTIVITY 05: CIVIL ENGINEERING	SUPPORT	EQUIPMENT					
CIVIL I	ENGINEERING SUPPORT EQUIPMENT							
129 ARM	ORED SEDANS	A			. 4	U		
130 PAS	SENGER CARRYING VEHICLES	А	.6	.1	1.4	U		

DEPARTMENT OF THE NAVY

FY 2002 PROCUREMENT PROGRAM EXHIBIT P-1

APPROPRIATION: 1810N OTHER PROCUREMENT, NAVY DATE: JUNE 2001

MILLIONS OF DOLLARS

		MILLIONS OF DOLLARS						
LINE NO	ITEM NOMENCLATURE		QUANTITY COST		FY 2002 QUANTITY COST	S E C		
131 GENE	RAL PURPOSE TRUCKS	А	2.1	1.0	1.5	U		
132 CONS	TRUCTION & MAINTENANCE EQUIP	A	5.0	8.2	9.6	U		
133 FIRE	FIGHTING EQUIPMENT	A	2.3	2.5	5.3	U		
134 TACT	ICAL VEHICLES	В	5.9	20.3	20.2	U		
135 AMPH	IBIOUS EQUIPMENT	А	15.9	51.1	14.6	U		
136 POLL	UTION CONTROL EQUIPMENT	А	23.9	22.0	20.0	U		
137 ITEM	S UNDER \$5 MILLION	А	8.4	3.4		U		
TOTAL CI	VIL ENGINEERING SUPPORT EQUIPMEN	NT	63.9					
	CTIVITY 06: SUPPLY SUPPORT EQUI	IPMENT						
SUPPLY :	SUPPORT EQUIPMENT							
138 MATE	RIALS HANDLING EQUIPMENT	А	6.3	7.6	8.8	U		
139 OTHE	R SUPPLY SUPPORT EQUIPMENT	A	5.4	5.1	7.5	U		
140 FIRS	T DESTINATION TRANSPORTATION	A	3.1	4.0	5.2	U		
141 SPEC	IAL PURPOSE SUPPLY SYSTEMS	A	132.7			U		
TOTAL SU	PPLY SUPPORT EQUIPMENT		147.6		512.0			
	CTIVITY 07: PERSONNEL AND COMMA	AND SUPP	ORT EQUIPMENT					
TRAININ	G DEVICES							
142 TRAII	NING SUPPORT EQUIPMENT	A	3.1	6.7	1.1	U		
COMMAND	SUPPORT EQUIPMENT							
143 TRAII	NING SUPPORT EQUIPMENT	A						
144 OTHE	R TRAINING EQUIPMENT	А						
145 COMM	AND SUPPORT EQUIPMENT	A	23.4	22.7	28.8	U		

UNCLASSIFIED

DEPARTMENT OF THE NAVY

FY 2002 PROCUREMENT PROGRAM EXHIBIT P-1

APPROPRIATION: 1810N OTHER PROCUREMENT, NAVY DATE: JUNE 2001

MILLIONS OF DOLLARS

MILLIONS OF DOLLARS						~		
LINE NO	ITEM NOMENCLATURE	CODE		COST	FY QUANTITY	COST	COST	
	ATION SUPPORT EQUIPMENT			3.5			 6.6	U
147 MEDIO	CAL SUPPORT EQUIPMENT	A		5.0		7.3	7.7	U
148 INTE	LLIGENCE SUPPORT EQUIPMENT	А						
149 OPER	ATING FORCES SUPPORT EQUIPMENT	А		7.3		24.8	15.8	U
150 MOBI	LE SENSOR PLATFORM	A					4.0	U
151 ENVI	RONMENTAL SUPPORT EQUIPMENT	A		18.2		19.1	25.2	U
152 PHYS	ICAL SECURITY EQUIPMENT	A		7.3		9.5	116.9	U
PRODUCT	IVITY PROGRAMS							
153 JUDG	EMENT FUND REIMBURSEMENT	A		4.2				U
OTHER								
154 CANC	ELLED ACCOUNT ADJUSTMENTS	A		13.0				U
TOTAL PE	RSONNEL AND COMMAND SUPPORT EQUI:	PMENT		104.3		109.9	221.6	
	CTIVITY 08: SPARES AND REPAIR P.	ARTS						
SPARES 2	AND REPAIR PARTS							
155 SPAR	ES AND REPAIR PARTS	A		260.6		206.4	234.1	U
TOTAL SPA	ARES AND REPAIR PARTS			260.6		206.4	234.1	
TOTAL OT	HER PROCUREMENT, NAVY							

UNCLASSIFIED

		В	UDGET ITE	M JUSTIFIC	ATION SHEE	T			DATE:			
				P-40						June	2001	
APPROPRIATION/BUI	DGET ACTIVI	TY					P-1 ITEM NOM	MENCLATURE				
Other Procureme	nt, Navy/B	A-4 Ordn	ance Suppo	ort Equipme	nt		GUN FIRE C	ONTROL EQ	JIPMENT (GF	CE) - 511000		
Program Element for C	Code B Items:						Other Related	Program Eleme	nts			
		ID Code	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total
QUANTITY												
COST (In Millions)			\$6.8	\$4.4	\$17.9							
SPARES COST (In Millions)												

Description: (U) This program provides for procurement of equipment, materials and Ordnance Alterations (ORDALTs) to improve combat effectiveness of and maintain logistic supportability of Gun Fire Control Systems (GFCS) installed on 65 ships (65 MK 86) and 8 shore installations (8 MK 86).

UK009 Switchboard ORDALTs - Procures ORDALTs for GFCS MK 86 Switchboards to improve weapon and combat system data switching capability; provides concurrent changes with other ORDALTs; and provides technical documentation upgrades required by interfacing system/equipment ORDALTs.

UK024 RMA (Reliability, Maintainability and Availability) MK 86 - Procures product Improvement ORDALTs for GFCS MK 86 to correct problems reported by fleet units; upgrades unreliable components and replaces obsolete components and parts no longer in production. Installations to be in ship classes with MK 86 configuration. MK 86 ORDALTs were procured in prior years and are being installed in blocks to reduce total installation costs.

UK039 Night Vision Devices - Procures new Night Vision Devices (NVD) for ships and shore sights. Provides repair or replacement of NVD and NVD Test Equipment.

UK040 AN/SPQ-9B Radar ORDALT 16666 - Procures AN/SPQ-9 improvementORDALTS (AN/SPQ-9B Radar) to add Anti-Ship Missile Defense (ASMD) capability which increases the radar capability to detect and track low-flying, very small cross-section targets in natural and man-made clutter. Installations to be performed by AIT in the following ship classes: QTY=22 CG-47; QTY=1 Trainer; QTY = 1 LBTS; QTY=8 CVN; QTY=7 LHD; QTY=1 DD-963 class ship; and QTY=1 Processor only at AEGIS Combat System Engineering Development Site (CSEDS).

UK040 AN/SPQ-9B GFM - U.S. Air Force APG-68 Transmitter used in AN/SPQ-9B Radar configuration.

UK041 AN/SPQ-9B Non-recurring Production Drawing Package Supports AN/SPQ-9B Radar production drawings and data efforts.

ITEM NO. 109

UK042 ORDALT Kit/Engineering Changes - Procures product improvement ORDALTs; corrects problems reported by fleet units; upgrades unreliable components and replaces obsolete components and parts no longer in production for AN/SPQ-9B Radar ORDALT 16666.

UK045 Light-Weight (LW) Engineering Change Kits (ECK)- Procurement of Lightweight Engineering Change Kits.

P-1 SHOPPING LIST

PAGE NO. 1

CLASSIFICATION:

UNCLASSIFIED

DD Form 2454, JUN 86

DD Form 2454, JUN 86

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET	DATE:
P-40 CONTINUATION	June 2001
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE/LINE ITEM #
Other Procurement, Navy/BA-4 Ordnance Support Equipment	GUN FIRE CONTROL EQUIPMENT (GFCE) - 511000
UK800 AN/SPQ-9B O/A 16666 ILS/Test Support -Supports Developmental and Operational T Lightweight Antenna ORDALT Kit.	Testing on the DD-963 Class ship and Follow-on Testing to the
UK830 AN/SPQ-9B Production Support- Supports AN/SPQ-9B Radar program and contracted	ctor associated areas.
UK5IN/UK6IN - Installation of Equipments - Provides funding to install ORDALTs, field change and shore sites (Non-fleet Modernization Program - NON-FMP)	iges and other alterations in ships (Fleet Modernization Program - FMP)
P-1 SHOPPIN	ING LIST CLASSIFICATION:

PAGE NO. 2

ITEM NO. 109

UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED

	WEAPONS SYSTEM CO P-5	OST A	NALYSIS		Weapon Syst	em							DATE:	e 2001
	RIATION/BUDGET ACTIVITY Procurement, Navy/BA-4 Ordnance \$	Supp	ort Equipment		ID Code		MENCLATURE		(GFCE) - 511	000	SUBHEAD:	24UK		
			TOTAL COST IN THOUSA	NDS OF DOLL	ARS	1			,					
COST	ELEMENT OF COST	ID Code		FY 2000			FY 2001			FY 2002				
OODL		Oodc	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
UK009 UK024 UK039 UK050 UK5IN	N864 SPONSOR EQUIPMENT Switchboard O/A's MK 86 RMA MK 86 Night Vision Devices GFCE Ordalt Kits INSTALL Installation of Eqmt FMP (RMA MK 86) Installation of Eqmt NON FMP (RMA MK 86) N864 SPONSOR TOTAL	A			24 1,212 451 0 266 95 2,048			0 1,802 467 0 361 11 2,641			0 828 1,508 0 306 56 2,698			
UK040 UK041 UK040 UK042 UK045 UK800 UK830 UK900	N865 SPONSOR EQUIPMENT AN/SPQ-9B Radar MK 86 O/A 16666 AN/SPQ-9B N/R Production Drawing Package GFMAPG-68 Radar Transmitter ORDALT Kit/Engineering Changes LW ECKS AN/SPQ-9B O/A 16666 ILS/Test Support AN/SPQ-9B Production Support AN/SPQ-9B Consulting Services INSTALL Installation of Eqmt FMP (AN/SPQ-9B) Installation of LW Antenna ORDALT Kit - FMP Installation of Eqmt NON FMP (AN/SPQ-9B) Installation of LW Antenna O/A	A	1	1 725	1,945 1,823 212 725		295 200	1,026 210 295 200	3	4,264 341	12,792 1,023 0 1,205 208			
	NON FMP (AN/SPQ-9B) N865 SPONSOR TOTAL				4,705			1,731			15,228			
		-			6,753			4,372			17,926			

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

ITEM NO. 109 PAGE NO. 3

UNCLASSIFIED

BUDGET PROCURE	MENT HISTO	ORY AND	PLANNING EXHIBI	T (P-5A)		Weapon System		A. DATE		
									June 2001	
B. APPROPRIATION/BUDGE	T ACTIVITY				C. P-1 ITEM NON	MENCLATURE			SUBHEAD	
Other Procureme	nt. Navv/E	BA-4 Ord	nance Support I	Equipment						
	,		manoo capport	_qa.po	GUN FIRE C	ONTROL EQUIPMENT (GFCF) -	5110		24UK
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FISCAL YEAR (00)		(000)								
JK040 SPQ-9B Radar	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
JK040 GFM Xmtr	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
FISCAL YEAR (01) *										
UK040 SPQ-9B Radar	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
UK040 GFM Xmtr	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
FISCAL YEAR (02)										
UK040 SPQ-9B Radar	3	4,264	NAVSEA	Sep-01	SS/FFP	NORDEN SYSTEMS, INC. MELVILLE, NY	NOV 01	MAR 03	YES	
UK040 GFM Xmtr	3	341	NSWC CRANE	Nov-01	MILSTRIP	HILL AIR FORCE ODGEN, UTAH	NOV 01	MAY 02	YES	
DEMARKO.										<u> </u>

D. REMARKS

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

ITEM NO. 109 PAGE NO. 4 UNCLASSIFIED ge 4 of 8

^{*} Due to FY01 SSDS ATR, the SPQ-9B FY01 dollar amount reflected is \$5,084K vs. OSD/OMB Control of \$15,503K.

CLASSIFICATION:	UNCLASSIFIED
P3A	

РЗА		INDIVIDUAL MODIFIC	CATION			
MOE	DELS OF SYSTEM AFFECTED:	MK 86 GFCS Mod 9, 10, 12	TYPE MODIFICATION:	N/A	MODIFICATION TITLE:	AN/SPQ-9B Radar O/A 16666 to

MK86 Gun Fire Control System (GFC

CLASSIFICATION: UNCLASSIFIED

DESCRIPTION/JUSTIFICATION:

TOTAL PROCUREMENT

Adds Anti-Ship Missile Defense mode:	detects and tracks low-flying	extremely small radar cross-section	on targets in clutter

41.5

4.7

1.7

15.2

PAGE NO. 5

ITEM NO. 109

DEVELOPMENT STATUS/MAJOR DEVE	LOPM	ENT MILE	OTZ	NES:	MS I	V/II 10/9	4; C	<u> 10/94;</u>	CDR 7	7/95; D	T/OT 1	<u>10/98; N</u>	<u>IS III 7</u>	<u>7/01</u> .						
	<u>FY 1</u>	999 & Prid	<u>o FY</u>	2000		<u>/ 2001</u>		Y 2002						<u>FY</u>	2003				<u>TO</u>	TAL_
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$		ı					1		QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E	2	70.6	0	0.5	0	0.0	0	4.9											2	75.9
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				0.0
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				0.0
EQUIPMENT	2	9.8	0	0.0	0	0.0	2	9.2											4	19.0
EQUIPMENT NONRECURRING	3	9.4																	3	9.4
ENGINEERING CHANGE ORDERS		3.0		1.9		0.0		0.0												4.9
DATA						0.0														0.0
TRAINING EQUIPMENT	2	8.9					1	4.6											3	13.5
SUPPORT EQUIPMENT																				0.0
PRODUCTION SUPPORT		5.7		1.8		1.0		1.2												9.7
OTHER (ILS/TEST SUPPORT)		2.6				0.0														2.6
OTHER (CSS)		1.0		0.2		0.2		0.2												1.6
INTERIM CONTRACTOR SUPPORT																				0.0
INSTALL COST		1.2		0.7		0.5		0.0											0	2.5

al		(GFCS)	ontrol System (G	MK 86 Gun Fire Cont	o MK	// 40000												
						/A 16666	B Rada	AN/SPQ	LE:	TION TIT	IFICA	<u>1</u> 9, 1(MOD	S Mod	K 86 GFCS	: MK	ECTED	AFF	MODELS OF SYSTEMS
										M (AIT)	N TEA	STALLATIC	N INS	TERATIO	AL	-		INSTALLATION INFORM
						s	16 Mo		IE:	EADTIN	TION	PRODUC	_	/Jonths	2 N			ADMINISTRATIVE LEAD
				N/A		FY 2001:			-	N/A		FY 2000:	_	B 1999		1999:		
				N/A		FY 2001:				N/A		FY 2000:	_	N 2000	JU	1999:	FY	DELIVERY DATE:
							lions)	(\$ in N										_
\$	Tot			2003	Y 20	F			<u> </u>	2002		Y 2001		Y 2000		r Years		
	Qty			\$		1			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	(
1	4											0.5	7 2	0.7	1	0.7	1	PRIOR YEARS
0	0																	FY 2000 EQUIPMENT
0	0																	FY 2001 EQUIPMENT
0	0																	FY 2002 EQUIPMENT
0	0																	FY 2003 EQUIPMENT
0	0																	FY 2004 EQUIPMENT
0	0																	FY 2005 EQUIPMENT
0	0																	FY 2006 EQUIPMENT
0	0																	FY 2007 EQUIPMENT
0	0																	TO COMPLETE
		•		<u> </u>			•				•							
																IF:	FDUI	INSTALLATION SCHE
										FY 2002		001	20		000			
ΓΟΤΑΙ											1			4 1			1	& Prior
4									0	0 0	0	0 0	1	0 1		0 1	0	In 1
4									0	0 0	0	1 0	1	1 0	0	0 0	0	Out 1
														(=)				
4	0 0 0 0 0 0	P-3A							0 0	0 0 0 0	0	1 0	2 1 1	0 1 1 0	3 0 0	FY 20 2 3 0 1 0 0	1 0 0	2001 EQUIPMENT 2002 EQUIPMENT 2003 EQUIPMENT 2004 EQUIPMENT 2005 EQUIPMENT 2006 EQUIPMENT 2007 EQUIPMENT COMPLETE NSTALLATION SCHE FY 1999 & Prior 1

ITEM NO. 109 PAGE NO. 6 CLASSIFICATION: **UNCLASSIFIED**

CLASSIFICATION: UNCLASSIFIED														
P3A INDIVIDUAL MODIFICATION														
MODELS OF SYSTEM AFFECTED:	GFCS MK 86	TYPE MODIFICATION:	Mods 9, 10, 12	MODIFICATION TITLE:	MK86; Gun Fire Control									
					Equipment ORDALTs									
DESCRIPTION/JUSTIFICATION:														
Provides Product Capability, Safety, and	Survivability with RMA Improve	ments.												

DEVELOPMENT STATUS/MAJOR DEVEL	.OPME	NT MILES	TONES	S:	Cont	inuous	Impro	vements	to GF	CS MK	86							
	FY 19	99 & Prior	FY	2000	<u>FY</u>	′ 2001	FY	2002					FY 2	2003			<u>TO</u>	TAL
	QTY	\$	QTY	\$	QTY	\$	QTY	\$									QTY	\$
FINANCIAL PLAN (IN MILLIONS)																		
RDT&E																		0.0
<u>PROCUREMENT</u>																		
INSTALLATION KITS	1311	17.3	7	0.5	25	1.1	15	0.6									1358	19.5
INSTALLATION KITS - UNIT COST		0.0		0.0		0.0		0.0										0.0
INSTALLATION KITS NONRECURRING		2.9		0.6		0.7		0.2										4.4
EQUIPMENT																		0.0
EQUIPMENT NONRECURRING																		0.0
ENGINEERING CHANGE ORDERS																		0.0
DATA																		0.0
TRAINING EQUIPMENT																		0.0
SUPPORT EQUIPMENT																		0.0
PRODUCTION SUPPORT																		0.0
OTHER (ILS/TEST SUPPORT)																		0.0
OTHER (CSS)																		0.0
INTERIM CONTRACTOR SUPPORT																		0.0
INSTALL COST	1256	6.2	45	0.3	19	0.4	32	0.4									1352	7.3
TOTAL PROCUREMENT		26.4		1.4		2.2		1.2									 ION: UNCL	31.2

P3A (Continued)				INDIVIDU	AL N	MODIFICA	ΓΙΟΝ	(Continued	d)											
MODELS OF SYSTEMS	AFFECT	ΓED:	GF	CS MK 86		_ MOE	IFIC	ATION TITL	.E:	MK86; Gun	Fire	Control E	quipm	ent ORD	ALTs			_		
INSTALLATION INFORI METHOD OF IMPLEME			AL	TERATION	INS	STALLATIO	N TE	AM (AIT)												
ADMINISTRATIVE LEA								I LEADTIME	E:	N	/lont									
CONTRACT DATES:	FY 200		N/A		_	FY 2001:		N/A				FY 2		N/A						
DELIVERY DATE:	FY 200	0:	N/A	4	_	FY 2001:		N/A				FY 2	002:	N/A	١		_			
										(\$ in Millions))									
Cost:	Prior	Years		Y 2000		FY 2001		Y 2002		,			F`	Y 2003						Γotal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$						С	ty	1	-		Qty	\$
PRIOR YEARS	1256	6.2	45	0.3	10	0.2													1311	6.
FY 2000 EQUIPMENT					7	0.2													7	0.
FY 2001 EQUIPMENT					2		23	0.3											25	0.
FY 2002 EQUIPMENT							9	0.1											9	0.
FY 2003 EQUIPMENT								0											0	0.
FY 2004 EQUIPMENT																			0	0.
FY 2005 EQUIPMENT																			0	0.
FY 2006 EQUIPMENT																			0	0.
FY 2007 EQUIPMENT																			0	0.
TO COMPLETE																			0	0.
						ı				<u>'</u>										
INSTALLATION SCH	EDULE:																		 	
FY 1999		FY 200	0		FY	2001		FY 2002												
& Prior	1	2 3	3	4 1	2	3 4	1	2 3	4											TOTAL

Note: Prior years quantities above reflect total number of ORDALT kits installed. Beginning in FY95, ORDALTs have been procured, packaged, and installed in sets to lower overall ship unit costs.

- MK86 BASELINE ORDALTS: 13 (FY94 & Prior)

0

0

In

Out

- MK86 BLOCK 1 UPGRADE ORDALTS: 4 (FY95)
- MK86 BLOCK 2 UPGRADE ORDALTS: 5 (FY96)
- MK86 RMA-1 UPGRADE ORDALTS: 3 (FY97 FY00)

0 0 0 0

- MK86 RMA-2 UPGRADE ORDALTS: 5 (FY01- FY05)

P-3	A
CLASSIFICATION:	UNCLASSIFIED

0

0

0

0

UNCLASSIFIED

			BUD	GET ITEM J	USTIFICATION S	SHEET				DATE:	
					P-40					June	2001
PPROPRIATION/BUD	GET ACTIVITY					P-1 ITEM NO	MENCLATUR	E			
						BLI: 5112	NAVAL F	IRES CON	TROL SYST	EM/	
ther Procuremen	t, Navy / BA-4	: OTHE	R WEAPON	NS			LAND A	TTACK MIS	SSILE FIRE	CONTROL S	YSTEM
ogram Element for Co	ode B Items:					Other Related	d Program Elei	ments			
	Prior	ID	EV 0000	EV 0004	EV 0000						
UANTITY	Years	Code	FY 2000	FY 2001	FY 2002						
OST (\$M)			\$0.0	\$0.0	\$0.6						
itial Spares (\$M)			ψ0.0	ψ0.0	Ψ0.0						
aval Fires Control Syste /stems including the 5"/6						ice Fire Support (NSFS)	Weapons. NF	CS will plan and	coordinate the fi	ring of the new N	ISFS weap
						ice Fire Support (NSFS)	Weapons. NF0	CS will plan and	coordinate the fi	ring of the new N	ISFS wear
						ice Fire Support (NSFS)	Weapons. NF0	CS will plan and	coordinate the fi	ring of the new N	ISFS wea _l
						ice Fire Support (NSFS)	Weapons. NF0	CS will plan and	coordinate the fi	ring of the new N	ISFS wear
						ice Fire Support (NSFS)	Weapons. NFO	CS will plan and	coordinate the fi	ring of the new N	ISFS weap
						ice Fire Support (NSFS)	Weapons. NFO	CS will plan and	coordinate the fi	ring of the new N	ISFS wear
						ice Fire Support (NSFS)	Weapons. NFO	CS will plan and	coordinate the fil	ring of the new N	ISFS wea

P-1 SHOPPING LIST ITEM NO 110

UNCLASSIFIED

CLASSIFICATION:

DD Form 2454, JUN 86

PAGE NO 1

UNCLASSIFIED

WEAPONS SYSTE	M COST A P-5	NALYSIS			Weapon Syste	em						DATE	: June 2001
PPROPRIATION/BUDGET ACTIVITY ther Procurement, Navy/BA-4					ID Code	NAVAL FI		SUBHEAD ROL SYST ROL SYSTI				,	
		TOTAL COST	T IN THOUSAN	IDS OF DOLLA	ARS	1			,	,			
COST ELEMENT OF COST	ID Code	Prior Years		FY 2000			FY 2001			FY 2002			
		Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
NFCS Phase I+ LAM FCS VLS (Baseline V/VI) VLS (Baseline III)									1 1 1	100 100 400	100		
		0			P-1 SHOPPING			0			600 CLASSIFICATION:		

UNCLASSIFIED

BUDGET PROCURE	MENT HISTO	DRY AND	PLANNING EXHIB	IT (P-5A)		Weapon System		A. DATE		
									June 200	I
B. APPROPRIATION/BUDG	SET ACTIVITY				C. P-1 ITEM NO	MENCLATURE			SUBHEAD	
Other Procurem	ent, Navy/I	BA-4 Ord	dnance Suppor	t Equipment	NAVAL FII	RES CONTROL SY	STEM /	LAND A	TTACK	
	, ,		••	• •		FIRE CONTROL SY				
					CONTRACT			DATE OF	SPECS	DATE
Cost Element/	QUANTITY	UNIT	LOCATION	RFP ISSUE	METHOD	CONTRACTOR	AWARD	FIRST	AVAILABLE	REVISIONS
FISCAL YEAR		COST	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLE
		(000)								
NFCS Phase 1+										
FY2002	1	100	TBD	NOV-01	CPAF	UNKNOWN	FEB-02	FEB-03	NO	JUL-01
LAM FCS										
FY2002	1	100	TBD	NOV-01	CPAF	UNKNOWN	FEB-02	FEB-03	NO	JUL-01
1 12002		100	155	1101 01	0.7	oral a control	. 25 02	1 2 3 3 3	110	002 01
VLS (Baseline V/VI)										
FY2002	1	400	TBD	NOV-01	CPAF	UNKNOWN	FEB-02	FEB-03	NO	JUL-01
1 12002		100	155	1107 01	01711	OTHER TOTAL	1 25 02	1 25 00	110	002 01
D. REMARKS				•	•	•	•	•	•	

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

ITEM NO. 110 PAGE NO. 3 UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED																					
P3A		INDIVIDUA	L MOI	DIFICAT	ION																
MODELS OF SYSTEM AFFECTED:					TYPE	MODIF	FICAT	ION:						MOE	DIFICATION	IT NC	TLE:	Nava	al Fires Con	trol System	
																		Phas	se I +	-	
DESCRIPTION/JUSTIFICATION:																					
Naval Fires Control System Phase 1+ will b	e embe	edded in Tad	ctical 1	OMAHA	WK V	Veapons	Cont	rol Syste	m (TT	NCS) a	ong with th	ne Land A	ttack Fire	Contr	ol Syster	n (LA	M FCS)	to ma	keup the Si	urface Com	oatant
Common Land Attack Warfare System (SC																					
DEVELOPMENT STATUS/MAJOR DEVELO	PMFN	T MII ESTO	NFS.																		
22122012111.01711.00711																					
	FY 19	99 & Prior	FY	2000	FY	2001		FY 200	2												
	QTY	\$					QTY		_												
FINANCIAL PLAN (IN MILLIONS)		*																			
RDT&E																					
PROCUREMENT																					
INSTALLATION KITS	0	0.0	0	0.0	0	0.0	1	0.1													
INSTALLATION KITS - UNIT COST								0.1													
INSTALLATION KITS NONRECURRING																					
EQUIPMENT																					
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
PRODUCTION SUPPORT																					
OTHER (ILS/TEST SUPPORT)																					
OTHER (CSS)																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST				0.0																	
TOTAL PROCUREMENT		0.0		0.0		0.0	1	0.1													
		-						ITEM	110		PAGE	4	•					CLA	SSIFICATION	N: UNCLA	SSIFIED

CLASSIFICATION: UNCLASSIFIED																						
РЗА		INDIVIDUA	L MO	DIFICAT	ΓΙΟΝ																	
MODELS OF SYSTEM AFFECTED:				-	TYP	E MODI	FICAT	ION:				_			MOI	DIFICATI	ON T	ITLE:	LAM	1 Fire Contr	ol System	
DESCRIPTION/JUSTIFICATION:																						
The Land Attack Fire Control System (LAN	I FCS)	will be embe	edded	in Taction	al TC	MAHAV	VK We	eapons C	ontrol	System	(TTW	CS) alon	g with	the Nav	al Fire	es Contro	I Syst	tem Pha	se 1+	to makeup	the Surface	Combatar
Common Land Attack Warfare System (SC	CLAW	VS) which wi	ll be ir	nstalled	on CG	6-52 to 7	3 and	DDG-79	to 107	7.												
																						ļ
DEVELOPMENT STATUS/MAJOR DEVELO	OPMEN	NT MILESTO	NES:																			
												_										
		999 & Prior		2000	_	<u> 2001</u>		FY 200	2													
	QTY	\$	QTY	\$	QTY	\$	QTY	\$														
FINANCIAL PLAN (IN MILLIONS																						
RDT&E																						
PROCUREMENT																						
INSTALLATION KITS	0	0.0	0	0.0	0	0.0	1	0.1														
INSTALLATION KITS - UNIT COST								0.1														
INSTALLATION KITS NONRECURRING																						
EQUIPMENT																						
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
PRODUCTION SUPPORT																						
OTHER (ILS/TEST SUPPORT)																						
OTHER (CSS)																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST				0.0																		
TOTAL PROCUREMENT		0.0		0.0		0.0	1	0.1														
_								ITEM	110	Р	AGE	5							CLA	SSIFICATI	ON: UNCL	ASSIFIED

CLASSIFICATION: UNCLASSIFIED																					
РЗА	I	NDIVIDU	AL MO	DIFICAT	TION																
MODELS OF SYSTEM AFFECTED:				=	TYPI	E MODII	FICAT	ION:	-			-		MOI	DIFICATION	ON TITL	.E:	VLS			
DESCRIPTION/JUSTIFICATION:																					
The MK 41 VLS will be modified to impleme	ent the L	and Attac	k Missi	le Fire C	ontrol	System	(LAM	FCS). T	he VL	S will be	install	ed on Co	G-52 t	o 73 and DDG	-79 to 95	j.					
DEVELOPMENT STATUS/MAJOR DEVELO	OPMENT	MILESTO	ONES:																		
	5) / / 0.00		_		_	,		5 1,000	_												
	<u>FY 199</u> QTY	9 & Prior \$	QTY	<u>/ 2000</u> \$		<u>2001</u> \$	QTY	FY 2003	∠												
FINANCIAL PLAN (IN MILLIONS)	GII	Ψ	QII	Ψ	QTT	Ψ	QII														
RDT&E																					
PROCUREMENT																					
INSTALLATION KITS	0	0.0	0	0.0	0	0.0	1	0.4													
INSTALLATION KITS - UNIT COST*							1	0.4													
INSTALLATION KITS - UNIT COST**																					
INSTALLATION KITS NONRECURRING																					
EQUIPMENT																					
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
PRODUCTION SUPPORT																					
OTHER (ILS/TEST SUPPORT)																					
OTHER (CSS)																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST				0.0																	
TOTAL PROCUREMENT		0.0		0.0		0.0	1	0.4													
				•	•		•	ITEM	110		PAGE	6	i					CLAS	SIFICATION	ON: UNCL	ASSIFIED

^{*}Baseline V/VI

^{**}Baseline III

P3A (Continued)																					
P3A (Continued)				INDIVIDU	AL I	MODIFICA	TION	(Continued)												
MODELS OF SYSTEMS	AFFI	ECT <u>ED:</u>				MOI	DIFIC	ATION TITL	E:	VLS								_			
INSTALLATION INFORM																					
METHOD OF IMPLEMEN					_																
ADMINISTRATIVE LEAD			-					I LEADTIME	:	24	Мо										
CONTRACT DATES: DELIVERY DATE:		2000:	-			FY 2001: FY 2001:							2002: 2002:			-					
DELIVERT DATE.	г	2000.				F1 2001.	•					F1 2	2002.			_					
										(\$ in N	/lillion	s)									
Cost:	Pric	or Years	F	Y 2000		FY 2001		FY 2002		,		•									
	Qty	\$	Qty	\$	Qty	γ \$	Qty	\$				1		1	\$		1				ı
PRIOR YEARS				0.0		0.0		0.0													
FY 2000 EQUIPMENT				0.0)	0.0)	0.0													
FY 2001 EQUIPMENT																					
FY 2002 EQUIPMENT																					
FY 2003 EQUIPMENT																					
FY 2004 EQUIPMENT																					
*FY 2005 EQUIPMENT																		-		+	
*FY 2006 EQUIPMENT *FY 2007 EQUIPMENT																				+	
*TO COMPLETE																				+	
TO COMIT ELTE		I		l	I					<u> </u>				1	 	1		1			l
INSTALLATION SCH	DUL																				i i i
FY 1999 & Prior	1	<u>FY 20</u> 2 3	000 3	4 1	<u>FY</u> 2	2001 3 4		FY 2002 2 3	4												
In 0	0		0	0 0	0	$-\frac{3}{0}\frac{4}{0}$	0	0 0	0	 					 		 				
Out 0	ll o				0		ll o	0 0	0												
										J							J				1
																	D • •				
							TEM	110	Г.	AGE		7			CI A	COIL	P-3A ICATION: I		ACCIEIED		
						I	ı⊏ı∨ı	110	Ρ/	4GE		7			CLA	SOIF	ICATION:	ONCL	.AJJIFIED		

UNCLASSIFIED

		E	BUDGET ITE	M JUSTIFICA	ATION SHEE	T			DATE:			
				P-40						JUNE	E 2001	
APPROPRIATION/BUI	DGET ACTIVI	ΤΥ					P-1 ITEM NON	MENCLATURE				
OTHER PROCURI	EMENT, NA	VY/BA	ORDNANC	E SUPPORT	EQUIPMEN	Т		NATO	SEASPARR	ow -	523700	
Program Element for C	ode B Items:						Other Related	Program Eleme	ents			
							Ship Self D	efense 0604	755N Proj 20	173		
	Prior	ID					_		•		То	
	Years	Code	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	Total
QUANTITY												
COST												
(In Millions)			\$2.1	\$8.1*	\$10.7						CONT	CONT
SPARES COST												
(In Millions)												

NATO SEASPARROW Surface Missile System (NSSMS) NATO SEASPARROW is a Self Defense AAW Shipboard Missile System.

Primary operations consist of:

- Acquiring targets from external or internal designations
- Establishing track data for Engageability Determination and Launcher/Missile Control
- Target Illumination for Missile Guidance
- Missile Firing

DD Form 2454, JUN 86

- Kill/Survive Assessment

Provides fully automatic operation with provisions for Operator Intervention or Override from the time of Target Designation to Missile Away. The NSSMS consists of a Fire Control System comprised of Directors; a General Purpose Digital Computer; Signal Data Converters; Transmitter Group; Operating Consoles, and an 8 Cell Launcher, which employs the surface launch variant of the Sparrow Missile. The Surface Launch Version (RIM-7) uses a Radar Homing Guidance System, with Target Illumination provided by the shipboard MK91 System Radar Directors.

When NSSMS is combined with the MK23 Target Acquisition System (TAS), they become the AN/SWY-1 Self Defense Surface Missile System for the following U.S. Navy Ships: AOE/AORs, DD963s, Self Defense Test Ship, and shore based facilities. When the MK23 TAS is combined with RAM it becomes AN/SWY-2 on the LHA's. When NSSMS and TAS and RAM are combined it becomes the AN/SWY-3 on CV/CVNs and LHDs.

The NSSMS is a NATO Cooperative Project with 13 participating governments; Australia, Belgium, Canada, Denmark, Germany, Greece, Italy, Norway, The Netherlands, Portugal, Spain, Turkiye and the United States. The NSSMS and associated systems of the Cooperative Project were developed, produced and are supported under DoD/MoD level International Memorandum of Understanding (MOU).

The NATO Cooperative Project is currently in the Engineering, Manufacturing and Development Phase (EMD) for the Evolved SEASPARROW Missile (ESSM) and associated NSSMS/MK91 Fire Control modifications. The ESSM is currently covered by two MOUs, one for EMD and one for Production.

*FY 2001 value reflects proposed Above Threshold Reprogamming to the Ship Self Defense Program (RDTEN PE: 0604755N Project: K2178).

P-1 SHOPPING LIST

CLASSIFICATION:

ITEM NO. 111 PAGE NO. 1

UNCLASSIFIED

CLASSIFICATION:	UNCLASSIFIED		
	BUDGET ITEM JUSTIFICATION SHEET		DATE:
	P-40 CONTINUATION		JUNE 2001
APPROPRIATION/BUDGET AC		P-1 ITEM NOMENCLA	
OTHER PROCUREME	NT, NAVY / BA 4: Ordnance Support Equipment	NATO S	SEASPARROW / 523700
FY 2000 provided for part of	of the U.S. share of consortium effort. The remainder was provided via FY99 fu	inding and FY00 BTR.	
provides for engineering chan	vides for initial development of interactive course-ware (ICW), interactive techninges necessary to keep the MK 91 NATO SEASPARROW Guided Missile Folloscence issues. This funding also provides for the U.S. share of consortium	ire Control System (GMFCS)	ems evaluation and training (SEAT) capability. It ReArchitecture upgrades current with technical
	ovides for the remaining development of ICW, ITMs and a SEATcapability. Architecture upgrades current with technical change requirements and obsolescent		

P-1 SHOPPING LIST CLASSIFICATION:
DD Form 2454, JUN 86 ITEM NO. 111 PAGE NO 2 UNCLASSIFIED

UNCLASSIFIED

	WEAPONS SYSTEM C P-5	OST A	NALYSIS			Weapon Sy	stem							DATE: JUNE	2001
	RIATION/BUDGET ACTIVITY Procurement, Navy BA-4 Ordna	nce S	upport Ea	uipment		ID Code	P-1 ITEM N	OMENCLATU	JRE/SUBHEAI		EASPARG	OW / 24US	.		
				-											
			TOTAL COS	T IN THOUS	SANDS OF DO	DLLARS									
COST CODE	ELEMENT OF COST	ID Code	Prior Years		FY 2000			FY 2001			FY 2002				
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Co
US003	NSSMS IMPROVEMENTS/ CONSORTIUM SUPPORT					1,311			4,224			4,182			
US004	MK 91 RESEARCH SYSTEM MODIFICATION								2,540			6,152			
US00X	AVT-RNSSMS								993						
JS005	TAS					817									
JS900	CSS								334			336			
JS5IN	EQUIPMENT INSTALLATION														
	TOTAL					2,128			8,091			10,670			

DD FORM 2446, JUN 86

P-1 SHOPPING LIST ITEM NO. 111

PAGE NO.

3

CLASSIFICATION:

CLASSIFICATION:	UNCL	ASSIFIED
-----------------	------	----------

P3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: NATO SEASPARROW TYPE MODIFICATION: Performance, Reliability and Safety MODIFICATION TITLE: MK 91 REARC & Transmitter

Surface Missile Systems

DESCRIPTION/JUSTIFICATION:

The MK 91 NATO Seasparrow ReArchitecture Program will integrate the NSSMS into the SSDS MK 2 architecture to provide an additional layer of ship missile defense. The upgrade will eliminate the analog point to point architecture and other deficiencies resident to the existing MK 57 NSSMS, as well as allow for full exploitation of ESSM. In addition to reductions in manning realized by RNSSMS, the Solid State Transmitter Ordalt and replacement for the SDP will reduce NSSMS Cost of Ownership for the fleet.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	<u>FY 1</u>	999 & Prior		2000		2001		2002		2003		2004		<u> 2005</u>		2006		2007		<u>TC</u>		OTAL
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						0.0
INSTALLATION KITS - UNIT COST																						<u> </u>
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT		2.9																			13	2.9
EQUIPMENT NONRECURRING						1.3		4.1														5.4
ENGINEERING CHANGE ORDERS		0.4				1.3		1.3														2.9
DATA																						<u> </u>
TRAINING EQUIPMENT																						<u> </u>
SUPPORT EQUIPMENT																						<u> </u>
OTHER-PRODUCTION SUPPORT		0.9																				0.9
OTHER - CSS		0.4				0.3		0.4														1.1
OTHER																						<u> </u>
INTERIM CONTRACTOR SUPPORT																						<u></u>
INSTALL COST																					13	0.0
TOTAL PROCUREMENT		4.5		0.0		2.9		5.8														13.2

P-1 SHOPPING LIST

ITEM NO

111

PAGE NO. 4

*3 Ship Sets - 2 CVN and 1 LHD

CLASSIFICATION: UNCLASSIFIED

CLASSIFICATI		CLAS	SIFIE)																							
P3A (Continued	d)				IND	IVIDU	AL M	IODIFIC	CATIC	ON (C	Continue	d															
MODELS OF S	SYSTEMS	AFF	ECTE	D:	NAT SEA	O SPAR	ROV	_	ODIF	FICAT	TION TIT	LE:	MK 91 RI	EARC	H									_			
INSTALLATION METHOD OF I					Surf	ace M	sl Sy	s																			
ADMINISTRAT				Mont	ths		•	PROF	DUCTI	ION I	LEADTIN	1F·	18	в Мо	nths												
CONTRACT DA			2000:					FY 20			(FY 2002	2:			0							
DELIVERY DA	TE:	FY	2000:	0	_			FY 20	01:	-	C)				FY 2002	2:	-		0		_					
														(\$ i	in Milli	ons)											
Cost:		Pric	r Years	S F	FY 20	000	F	Y 2001		FY	′ 2002		FY 2003		FY 2	2004		FY 2	2005		Y 2006	F	Y 2007	To Co	omplete		Total
		Qty	\$	Qty	′	\$	Qty	\$	С	Qty	\$	Qty	\$	Qty		\$	Qty		\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEAR	S																									0	0.0
FY 2000 EQU	IPMENT																									0	0.0
FY 2001 EQU	IPMENT																									0	0.0
FY 2002 EQU	IPMENT																									0	0.0
FY 2003 EQU	IPMENT																									0	0.0
FY 2004 EQU	IPMENT																									0	0.0
FY 2005 EQU	IPMENT																									0	0.0
FY 2006 EQU	IPMENT																									0	0.0
FY 2007 EQU	IPMENT																									0	0.0
TO COMPLET	ΓΕ																									0	0.0
INSTALLA <u>TI</u>	ION SCH	E <u>DU</u> I	LE:																								
F	FY 1999		FY 200)1		FY 2	2002		<u>F</u>	FY 20	003		FY 2004			FY 2	<u>005</u>			FY 2	2006		FY	2007		TC	
	& Prior	1	2 3	4	1	2	3	4	1	2	3 4	1	2 3	4	1	2	3	4	1	2	3 4	4	1 2	3	4		TOTAL
In	0	0	0 0		11 -	0	0	0																		13	13
Out	0	0	0 0	0	0	0	0	0				<u> </u>														13	13
l																											

UNCLASSIFIED

				EMENTS SCH				M NOMENCLATUR					DATE					
			P-23	BA			MK 9	I REARCHIT	ECTUF	RE (SSTX, S	DP &	REARCH)		JUNE 2	001			
APPROPRIATION Other Proc		GET ACTIVITY t, Navy						Installing Agent		e Shipyard suppo	rted by NS	SWC PHD and Ra	aytheon					
1ST QTI	3	2ND QTR		3RD QTR		4TH QTR		1ST QTR		2ND QTR		3RD QTR		4TH QTR				
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY			
			F	Y 2000				FY 2001										
O P N																		
S C N	1	CVN 68 LHD 7	1 1			CVN 76	1											
		<u>I</u>	FY 20	02						Į.		Į.						
O P N																		
S C N																		

P-1 SHOPPING LIST

ITEM NO. 111 PAGE NO. 6

CLASSIFICATION:

UNCLASSIFIED

		В	UDGET ITE	M JUSTIFIC	ATION SHEE	ΞT			DATE:			
				P-40						JUNE	E 2001	
APPROPRIATION/BU	JDGET ACTIVI	TY					P-1 ITEM NOM	MENCLATURE				
OTHER PROCUE	REMENT, NA	VY / BA	-4 RAM GM	LS				Rollir	ng Airframe I	Missile (RAN	n) 5238	
Program Element for	Code B Items:						Other Related	Program Eleme	ents			
	Prior Years	ID Code	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total
QUANTITY	56	A	3	2	4	2000	200 .	2000	2000	2007	0	65
COST (In Millions)	\$414.8	А	\$37.9	\$36.5	\$31.8							\$521.0
SPARES COST (In Millions)	N/A	А									N/A	\$0.0

Rolling Airframe Missile (RAM) - MK-49 Guided Missile Launching System (GML\$

RAM is a NATO cooperative project with Germany produced under a production MOU approved by the U.S. and Germany on 3 August 1987.

The MK-31 Guided Missile Weapons System (GMWS) is a lightweight, quick-reaction, high firepower missile system designed to provide antiship missile defense. The system is comprised of a MK-44 Guided Missile Round Pack (GMRP) and the MK-49 Guided Missile Launching System (GMLS), which holds 21 RAM missiles. The 21-round launcher is compatible with various platforms ranging from large USN amphibious assault ships to S-143 type German patrol boats. This system is designed to counter high density anti-ship, cruise missile raids and provide for ship survivability with accurate terminal guidance, proven lethality and no fire control channel dependence.

Approval for Full Rate Production was granted 6 May 1993. The total RAM GMLS procurement program is 155 launchers (73 OPN (including one trainer and one LBTF), 39 SCN, and 43 German systems). One hundred eight launchers (56 OPN, 9 SCN and 43 German) were procured in FY99 and prior, under joint U.S./German production contracts. A five year multiyear contract for 45 systems (17 OPN and 28 SCN) was awarded in FY00, with the remaining two SCN launchers scheduled for procurement in FY05.

P-1 SHOPPING LIST ITEM NO. 112 PAGE NO. 1

BUDGET ITEM JUSTIFICATION SHEET	DATE:
P-40 (CONTINUATION)	JUNE 2001
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE/LINE ITEM #
OTHER PROCUREMENT, NAVY	
BA-(4): (RAM GMLS)	Rolling Airframe Missile (RAM) 5238

RAM is installed on or planned for installation on the following ship classes:

<u>CLASS</u>	<u>SHIPS</u>	<u>LAUNCHERS</u>
LHA (OPN)	5	10
LSD (OPN)	11	23 (LSD-52 (1 OPN & 1 SCN))
DD 963 (OPN)	12	12
LHD (OPN)	4	8
CV (OPN)	2	4
CVN (OPN)	7	14
CG 47 (OPN)	0	0
TRAINER (OPN)*		1
LBTF 1 (OPN)*		1
OPN TOTAL	41	73 *(Only 71 shipboard installations)
LSD (SCN)	1	1 (LSD-52 (1 OPN & 1 SCN))
LHD (SCN)	3	6
CVN (SCN)	4	8
LPD 17 (SCN)	12	24
SCN TOTAL	20	39

The NSWC Port Hueneme provides installation oversight support as the ISEA for the RAM system. RAM will be installed on LHA, LSD, LHD, DD963, CV/CVN, and LPD ship classes.

DD Form 2454, JUN 86

	WEAPONS SYSTEM CO P-5	OST AN	ALYSIS			Weapon Sy	stem							JUNE	2001		
Other Pr	RIATION/BUDGET ACTIVITY rocurement, Navy AM GMLS							IOMENCLATU		24UR							
DA-4. IV	All Olico		TOTAL COS	T IN THOU	JSANDS OF D	, ,											
COST	ELEMENT OF COST	ID Code						FY 2001			FY 2002			FY 2003			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
	Sponsor: N86																
UR006	RAM MK-49 GMLS (Annual Procurement)	Α	274,239														
UR006	Multiyear RAM MK-49 GMLS	Α		3	3,920	11,761	2	3,813	7,626	4	4,053	16,213					
UR006	Multiyear RAM EOQ Material	Α	0			11,615			12,244			(8,323)					
UR006	RAM 11 Round GMLS	Α	5,543	0	0	0	0	0	0	0	0	0					
UR006	RAM ECP's	Α	28,543			4,128			1,021			2,456					
UR006	RAM GMLS ORDALTS	Α	5,605	0	0	0	0	0	0	16	531	8,500					
UR777	RAM ENGINEER SERVICES (Contractor)	Α	20,590			3,033			3,029			3,051					
UR007	RAM GMLS PRODUCTION SUPPORT	Α	29,701			929			4,440			5,131					
UR900	RAM - CSS	Α	6,006			344			711			1,030					
UR006	RAM GMLS/ORDALT Install (Non-FMP)	Α	322			234			0			0					
UR5IN	RAM GMLS AIT Install (FMP)	А	44,255			5,818			7,401			3,780					
	2446 .IUN 86		414,804			37,862			36,472			31,838]	0		

DD FORM 2446, JUN 86

BUDGET PROCUREME	NT HISTO	RY AND PI	ANNING EXHIBIT	(P-5A)		Weapon System		A. DATE		
									JUNE 200	1
B. APPROPRIATION/BUDGET A	CTIVITY				C. P-1 ITEM NOM	ENCLATURE			SUBHEAD	
Other Procurement, Na	ıvy								24	UR
BA - 4: RAM GMLS					ROLLING AII	RFRAME MISSILE (RAM	/I) 5238			
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
UR006 FISCAL YEAR (00) RAM GMLS (MK-49) UR006	3	3,920	NAVSEA	7/99	SS/FPM-5(1)	Raytheon Company, Louisville, KY	4/00	2/02	YES	
FISCAL YEAR (01) RAM GMLS (MK-49) UR006	2	3,813	NAVSEA	N/A	SS/FPM-5(2)	Raytheon Company, Louisville, KY	12/00	10/02	YES	
FISCAL YEAR (02) RAM GMLS (MK-49)	4	4,053	NAVSEA	N/A	SS/FPM-5(3)	Raytheon Company, Louisville, KY	11/01	01/04	YES	

D. REMARKS

FY00 Contract is first year of five-year multiyear contract; subsequent years do not have award dates, but the date of funding for that fiscal year's buy.

The Multiyear contract is for a mix of OPN and SCN launchers.

DD Form 2446-1, JUL 87

P-1 SHOPPING LIST ITEM NO. 112 PAGE NO. 5

P3A		INDIVIDUA	L MO	DIFICAT	TION																JUNE 2001	
ROLLING AIR	RFRAME	MISSILE (RAI	M)			TYPE M	10DIF	ICATIO	N:	MK-49	GMLS	/11 ROI	JND L	AUNCH	<u>E</u> R	MODIF	ICATIO	ודוד מכ	E:			
DESCRIPTION/JUSTIFICATION:																						
The Rolling Airframe Missile is a lightweig (GMRP) and the MK-49 Guided Missile La 143-type German patrol boats. This syste channel dependence.	aunchin	g System (C	SMLS)	, which	holds	21 RAM	missil	es. The	21-rou	ınd laur	cher is	compa	tible w	ith vario	us plat	forms, ra	anging	from la	arge US	SN amphib	ious assaul	ships to S
DEVELOPMENT STATUS/MAJOR DEVEL	OPMEI	NT MILEST	ONES):	Miles	stone III,	Janua	ary 2000														
	FY 19 QTY	999 & Prior \$	<u>F`</u> QTY	<u>/2000</u> \$	<u>F\</u> QTY	<u>′ 2001</u> \$	<u>FY</u> QTY	<u>2002</u>	<u>FY</u> QTY	2003 \$	<u>F\</u> QTY	<u>′ 2004</u> \$	<u>FY</u> QTY	<u>′ 2005</u> \$	<u>FY</u> QTY	2006 \$	<u>FY</u> QTY	2007 \$	QTY	<u>TC</u> \$	<u>TO</u> QTY	TAL \$
FINANCIAL PLAN (IN MILLIONS)				-						·				·		-		-				
RDT&E																					0	0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS	8	5.7	0	0.2	0	0.0	16	8.5													24	14.5
INSTALLATION KITS - UNIT COST		0.7		0.0		0.0		0.5														
INSTALLATION Kits/GMLS		0.3		0.2		0.0		0.0														0.6
EQUIPMENT	56	279.8	3	11.8	2	7.6	4	16.2													65	315.4
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS		28.5		4.1		1.0		2.5														36.1
DATA																						0.0
TRAINING EQUIPMENT																						0.0
SUPPORT EQUIPMENT																						0.0
ENGINEERING SERVICES (Contractor)		20.6		3.0		3.0		3.1														29.7
PRODUCTION SUPPORT		29.7		0.9		4.4		5.1														40.2
ECONOMIC ORDER QUANTITY				11.6		12.2		-8.3														15.5
INTERIM CONTRACTOR SUPPORT		6.0		0.3		0.7		1.0														8.1
INSTALL COST	40	44.3	5	5.8	9	7.4	3	3.8													57	61.3
TOTAL PROCUREMENT		414.9		37.9		36.5		31.8														521.1

P-1 SHOPPING LIST ITEM NO. 112 PAGE NO. 6

P3A (Continue	ed)				INDIV	IDU	AL M	IODIFIC	ATIO	N (Continue	d)										JUNE 2	2001						
					Rolli	ng A	irfra	me Miss	sile (RA	M) MK-49	GML	<u>.s</u>									MODIF	ICATI	т ис	ITLE:				
INSTALLATIO																													
METHOD OF			_		Shipy		AIT																						
ADMINISTRA					/lonths					ON	LEADTIM	E:		2	1 Mor	nths		-											
CONTRACT [2000:					FY 200			12/00	_						2002:	-	11/0		_							
DELIVERY DA	AIE:	FY	′ 2002:	2/0)2			FY 200	3:		10/02	-					FY 2	2004:		01/0	4	=							
															<u>/lillions</u>													ı .	
Cost		r Ye			Y 2000			Y 2001			Y 2002		FY 20			Y 20			Y 200			Y 2006	-	FY 2			omplete		Total
	Q	ty	\$	Qty	\$		Qty	\$	Q	ty	\$	Qty	-	\$	Qty		\$	Qty	,	\$	Qty	\$	Qt	У	\$	Qty	\$	Qty	\$
PRIOR YEA	RS	41	45.1	4		5.8	9	7.	.4	0	0.0																	54	58.3
FY 2000 EQ	UIPMEN ⁻	ΤС	0	0		0.0	0	0.	.0	3	3.8																	3	3.8
FY 2001 EQ	UIPMEN ⁻	Т																										0	0.0
FY 2002 EQ	UIPMEN ⁻	Т																										0	0.0
FY 2003 EQ	UIPMEN ⁻	Т																										0	0.0
FY 2004 EQ	UIPMEN	Т																										0	0.0
FY 2005 EQ	UIPMEN ⁻	Т																										0	0.0
FY 2006 EQ	UIPMEN ⁻	Т																										0	0.0
FY 2007 EQ	UIPMEN ⁻	Т																										0	0.0
TO COMPLE	ETE																											0	0.0
INSTALLA	TION SC	HED	ULE:																										
	FY 2000		FY 2	2001			FY 2	2002			FY 2003			FY	2004			FY	<u> 2005</u>			FY 200	<u> 6</u>		<u>FY</u>	2007		<u>TC</u>	
	& Prior	1	2	3	4	1	2	3 4	<u>-</u> ∐L	1	2 3	4	1	2	3	4	1	2	3	4	1	2 3	3 4	_ 1	2	3	4		TOTAL
In	45	3	1	3		0	0	3 0		0	2 0	0	0	2	2	0	2	2	0	2	0	2 0) 0	C	0	0	0	0	71
Out	45	0	3	1	3	2	0	0 3		0	0 2	0	0	0	2	2	0	2	2	0	2	0 2	2 0	C	0	0	0	0	71
																									P-3	3A			
1																													

P-1 SHOPPING LIST ITEM NO. 112 PAGE NO. 7

FY 2000/01 BUDGET PRODUC			EDUL	E, P-2	1													DATE				JUI	NE 2	2001						
APPROPRIATION/BUDGET AC OTHER PROCUREMENT, NAV			NA CNA	1.0									Wea	apon	Sys AM	stem			ITE											
OTHER PROCUREMENT, NAV	I.DA-	4. KAI	VI GIVI	LO			Pro	duct	ion F	Rate				17.7		cure			MK-		VILS/	11 K	JUNI	LAU	JNCH	EK				
Item	١	-	ufactu and L	ırer's ocatio	n	MS	SR*	1-8		MA	٩X		T P	rior t 1	AL	T Af	ter		Initia fg Pl	ı		eord Ifg P			Tota	ı			it of	
RAM MK-49 GMLS	Raythe	eon Con	npany,L	ouisvill	e, KY	8		12		24									21			21								
RAM 11 Round Launcher	Raythe	eon Con	npany,L	_ouisvill	e, KY	8		12		24									21			21								
									FIS	SCAL Y	'EAR	2000										FISC	CAL Y	EAR :	2001					
ITEM / MANUFACTURER	F	S	Q	D	В		1999					(CALE	NDAR	YEAR	2000)						CA	LEND	AR YE	EAR 2	2001			
	Y	V C	Y	E L	A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J U L	A U G	S E P	B A L
RAM MK-49 GMLS	98**	N	7	1	6	1			1	1		1	1							1										0
RAM 11 Round Launcher	98	N	1	0	1																						1			0
RAM MK-49 GMLS	99	N	8	0	8													1	1		1	1	1	1	1	1				0
RAM MK-49 GMLS (Multiyear)	00	N	3	0	3							Α																		3
RAM MK-49 GMLS (Multiyear)	01	N	2	0	2														Α											2
										FISC	AL YE	EAR 2	002									FISC	CAL Y	EAR :	2003					
ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	O C T	2001 N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	YEAR J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	ALEND A P R	AR YE M A Y	J U N	J U L	A U G	S E P	B A L
RAM MK-49 GMLS (Multiyear)	00	N	3	0	3					1	1	1																		0
RAM MK-49 GMLS (Multiyear)	01	N	2	0	2																									0
RAM MK-49 GMLS (Multiyear)	02	N	4	0	4		Α																							4
RAM MK-49 GMLS (Multiyear)	03	N	4	0	4																									4

Remarks:

^{*}MSR is for either the 21 round GMLS or the 11 round launcher, not for the two combined.

^{** 7} RAM MK-49 GMLS purchased in FY98; 1 delivered in FY98, remaining 6 delivered with normal lead time.

	TIN	IE PHASED R	EQUIR	EMENTS SCH	EDULE		P-1 ITE	M NOMENCLATUR	RE/PROJE	CT UNIT			DATE		
			P-23	A			Rolling	g Airframe Miss	ile (RAN	I)/UR5IN				JUNE 2001	
APPROPRIATION Other Procuments of the Procuments	ıremen							Installing Agen	t						
1ST QTR		2ND QTR		3RD QTR		4TH QTR		1ST QTR		2ND QTR		3RD QTR		4TH QTR	
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY
			FY 20	000					1		FY 2	2001			1
DD - 991	(1)	LSD - 50	(2)	LSD - 41	(2)			CV - 63 DD - 967	(2)	DD - 985	(1)	DD - 992 LSD - 43	(1)	CVN - 68	(2)
			F	Y 2002	1						FY 2	2003			
				DD - 997 LSD - 47	(1)										

P-1 SHOPPING LIST ITEM NO. 112 PAGE NO. 10

UNCLASSIFIED

			BUDGET IT	EM JUSTIFICA	TION SHEET				DATE:			
				P-40						JUNE	2001	
APPROPRIATION/BL	JDGET ACTIVITY	′					P-1 ITEM NOM	ENCLATURE				
OTHER PROCURE	MENT, NAVY/B	A 4						SHIP SE	LF DEFENSE	SYSTEM (SSD	S) / 5239	
Program Element for	Code B Items:						Other Related I	Program Elemer	its			
							P.E. 060475	5N				
	Prior	ID									То	
	Years	Code	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	Total
QUANTITY	9	Α	4	0	2						16	31
COST												
(In Millions)	\$90.2	Α	\$37.3	\$9.3	\$34.4						\$411.1	\$582.3
SPARES COST												
(In Millions)	\$4.1	Α	\$2.4	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	Continue	\$6.5

PROGRAM DESCRIPTION/JUSTIFICATION:

SHIP SELF DEFENSE SYSTEM (SSDS) - Funds are requested to procure an evolutionary SSDS for selected ship classes. The SSDS is a coordinated engineering approach to improve ship self defense utilizing existing and planned defensive systems in Navy ships. The program coordinates the efforts of diverse acquisition programs that are in varying stages of programmatic maturity. A multi-phased evolutionary acquisition program has been planned. The AN/SYQ-17 Rapid Anti-Ship Missile Integrated Defense System program, or SSDS MK 0, is being followed by an evolutionary SSDS MK1 program to integrate sensors and automate engagement sequences of hardkill and softkill systems. The next phase is identified as SSDS MK2.

SSDS MK 0 uses ruggedized computer workstations and an ETHERNET LAN and provides decision support to weapons systems operators and managers using data from AN/SLQ-32 and CIWS radar. SSDS MK 0 is designated for use on DD 963/FFG 7 class ships. During FY01-04, implementation of Commercial Off the Shelf technology refresh upgrade is planned for both DD 963 and FFG 7 class ships as Field Change Kits.

SSDS MK 1 is the second phase of an evolutionary acquisition of improved ship self defense capabilities against Anti-Ship Cruise Missiles (ASCM) for LSD 41/49 class ships. It integrates several existing standalone sensor and Anti-Air Warfare weapons systems to provide an automated detect-to-engage capability against low flying, high speed ASCMs with low radar cross sections in the littoral environment. System design emphasizes physically distributed non-developmental items, commercial standards, Next Generation Computer Resources, and computer program reuse in an open architecture computer network. It includes a command table that uses components of the Navy's AN/UYQ-70 standard display for human-machine interface, commercially available local area network access units and circuit cards, and commercially available fiber optic cabling. SSDS MK1 successfully completed Operational Evaluation in June 1997. SSDS received Milestone III Approval for Full Rate Production (Mar 98) and authority to continue integration with Advanced Combat Direction System (ACDS) and Cooperative Engagement Capability (CEC) on CV(N), LPD-17, and LHD ship classes.

SSDS MK 2 development will adopt the functionality of ACDS and combine the SSDS MK1 capability with and weapon and sensor elements. In addition, SSDS MK2 will integrate with CEC to improve joint interoperability for Aircraft Carriers and Amphibious Ships. SSDS MK2 provides enhanced capabilities for Force Protection against air, surface, and subsurface threats using both own-ship and remote data in support of the AAW Capstone Requirements. SSDS MK2 will increase operational capabilities, improve combat readiness and Battle Group Interoperability, and promote standardization both within installed ship classes and with AEGIS to facilitate transition to Common Command and Decision. SSDS MK 2 also equips all backfit LHDs and CV(N)s with an upgraded Combat System Display Suite which includes AN/UYQ-70s, Automatic Status Boards (ASTABS), Remote ASTAB Controllers, Advanced Sensor Distribution System and a backup Sensor Integration And Control Interface Terminal.

In FY02 a shore based SSDS MK 2 and a full combat system suite are being procured and installed at the Ship Combat System Center (SCSC). This facility, under the sponsorship of PEO(TSC), is being established at Wallops Island to provide a high fidelity combat system engineering development and integration test site in support of the combat systems of the CVN/LPD-17 and future ship classes. Presently the SCSC is equipped with core combat system components provided by PMS 317 that must eventually be installed onboard LPD-18. To fulfill its mission, SCSC requires a permanent set of combat system components.

P-1 SHOPPING LIST

CLASSIFICATION:

DD Form 2454, JUN 86 ITEM NO. 113 PAGE NO. 1

UNCLASSIFIED

UNCLASSIFIED

	WEAPONS SYSTE	M COST	ANALYSIS			Weapon S	ystem						DATE:	
	F	P-5											JUNE	2001
	RIATION/BUDGET ACTIVITY					ID Code	P-1 ITEM NO	OMENCLATUR	E/SUBHEAD					
Other P	rocurement, Navy/BA4					_						_		
			TOTAL 000T IN	T. 10.10.11D	0.05.0011.40	Α	SHIP SE	LF DEFENS	SE SYSTEM	II (SSDS)	A4UQ / 523	39		
			TOTAL COST IN	THOUSAND	S OF DOLLARS	5								
COST	ELEMENT OF COST	ID	Prior		FY 2000			FY 2001			FY 2002			
CODE		Code	Years Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
			Total Cost	Quantity	Offic Oost	10tai 003t	Quantity	OTIL OOSL	Total Cost	Quartity	OTHE OOSE	Total Oost		
	SPONSOR N86													
	EQUIPMENT	А												
l														
UQ001	SSDS													
	LSD		37,387	2	5,238	10,476	0	0	0	0	0	0		
	LHD		0	0	0,230	0,470	0	0	0	0	0	0		
	CV(N)		0	1	6,106	6,106	0	0	0	0	0	0		
				·										
	SHOREBASED		5,367	1	6,568	6,568	0	0	0	1	7,900	7,900		
	SUPPORT EQUIPMENT		0	0	0	0	0	0	0	1	17,000	17,000		
			40.004			4.070			704			0.000		
UQ002	SSDS PRODUCTION SUPPORT		19,021			1,870			781			2,228		
UQ003	SSDS ECP		3,004			0			244			478		
UQ004	SSDS TRAINING		5,494			2,500			523			508		
UQ005	SSDS COTS REPLACEMENT		0			0			775			5,795		
Uqxxx	COMBAT SYSTEM DISPLAY SUITE		0			0			0			0		
	INSTALL													
UQ51N	SSDS Equipment Install (FMP)		16,841			9,317			6,463			0		
UQ6IN	EQUIPMENT INSTALL (NON-FMP)		3,068			500	,		481			469		
ı	, ,													
i														
	1	<u> </u>	90,182	4		37,337	0		9,267	2		34,378		
	2446 ILIN 86		OPPING LIST	4		31,331	. "		3,201	2		CI ASSIEICAT		L

PAGE NO. 2

DD FORM 2446, JUN 86

P-1 SHOPPING LIST

ITEM NO. 113

CLASSIFICATION:

UNCLASSIFIED

BUDGET PROCUREME	ENT HISTOR	Y AND PLANN	ING EXHIBIT (P-5A)			Weapon System		A. DATE		
									JUNE 2001	
B. APPROPRIATION/BUDGET A					C. P-1 ITEM NOMI	ENCLATURE			SUBHEAD	
Other Procurement, N	avy/BA4				CLUD CELED	FFFNOF OVETEM (CCDC)	/ F020		A4	UQ
		T T	<u> </u>		CONTRACT	EFENSE SYSTEM (SSDS)	5239	DATE OF	SPECS	DATE
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	FIRST	AVAILABLE NOW	REVISIONS AVAILABLE
FISCAL YEAR (00)			NAVSEA	10/99		RAYTHEON			YES	N/A
LSD (UQ001) CVN 68 (UQ001) SHORE (UQ001)	2 1 1	5,238 6106 (R1) 6,568			FFP CPAF FFP	3970 Sherman St San Diego CA 92110	3/00 12/99 5/00	1/01 8/01 11/01		
FISCAL YEAR (01)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FISCAL YEAR (02)						RAYTHEON				
SHORE (UQ001)	1	7,900	NAVSEA	10/01	FFP	8680 Balboa Avenue San Diego CA 92123	TBD	10 mos. after award	YES	N/A
SUPPORT EQUIPMENT (UQ001)	1	17,000	NAVSEA NAVSEA NAVSEA NAVSEA	N/A N/A N/A N/A	VARIOUS	RAYTHEON LOCKHEED MARTIN LITTON MISC. VENDORS	(R2) (R2) (R2) (R2)	(R2) (R2) (R2) (R2)	YES YES YES YES	N/A N/A N/A N/A

D. REMARKS

Overall Note: Government Furnished Equipment (GFE) is included with unit cost above.

Remark 3: Unit price only reflects the requirements for a partial display upgrade to CVN 68 and LHD 7, an ECP Kit.

Classification: P-1 SHOPPING LIST DD Form 2446-1, JUL 87 **UNCLASSIFIED** ITEM NO. 113 3

PAGE NO.

Remark 1: Unit price only refects a partial SSDS MK 2 equipment suite; four multi-LAU cabinets versus six.

Remark 2: Award dates and delivery dates can not be estimated at this time due to various procurement requests that will require execution in order to place acquisitions through the approriate program offices responsible for these equipments

P3A	INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: SHIP SELF DEFENSE SYSTEM (SSDS) TYPE MODIFICATION: Ship Self Defense System MK 2 MODIFICATION TITLE:

DESCRIPTION/JUSTIFICATION:

Implements an evolutionary acquisition of improved ship self defense capabilities against Anti-Ship Cruise Missiles for selected non-AEGIS ships by integrating existing programmed Anti-Air Warfare stand alone systems.

It provides an automated quick reaction and multi-target engagement capability emphasizing performance in the littoral environment. Integration focuses on coordinating existing sensor information, providing threat identification and evaluation, assessing defensive readiness, and recommending optimized defensive tactical response to counter single and multiple Anti-Ship Cruise Missile attacks.
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Milestone III decision approved 5 March 1998

	FY 199 QTY	9 & Prior \$			<u>FY</u> QTY	<u>2001</u>	<u>FY</u> QTY	<u>/ 2002</u> \$	<u>FY</u> QTY	<u>′ 2003</u> \$	<u>FY</u> QTY	2004 \$	<u>F\</u> QTY	<u>/ 2005</u> \$	<u>FY</u> QTY	<u>2006</u>		<u>2007</u>	OTV	TC \$	QTY T	OTAL \$
FINANCIAL PLAN (IN MILLIONS)	Q I I	Ψ	QII	Ψ	QII	Ψ	QII	<u>Ψ</u>		Ψ	QII	Ψ	QII	Ψ	QII	Ψ	QII	Ψ	QII	I v	<u> </u>	Ψ
RDT&E	7	192.4	0	26.9	0	46.0*	0														7	Cont.
<u>PROCUREMENT</u>	9	42.8	4	23.2	0	0.0	2	24.9													15	90.9
INSTALLATION KITS																					0	0.0
INSTALLATION KITS NONRECURRING	}																					
EQUIPMENT	8	37.4	3	16.6	0	0.0	0	0.0													11	54.0
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT	1	5.4	1	6.6	0	0.0	0	0.0													2	12.0
SUPPORT EQUIPMENT	0	0.0	0	0.0	0	0.0	2	24.9													2	24.9
OTHER (Production Support)		19.0		1.9		0.8		2.2													0	23.9
OTHER (ECP)		3.0		0.0		0.2		0.5													0	3.7
OTHER (Training)		5.5		2.5		0.5		0.5													0	9.0
OTHER (COTS Replacement)				0.0		0.8		5.8													0	6.6
OTHER (CSS)																					0	0.0
INTERIM CONTRACTOR SUPPORT																					0	0.0
TOTAL PROCUREMENT		70.3		27.6		2.3		33.9													0	134.1
INSTALL COST**	5	19.9	4	9.8	4	6.9		0.5													13	37.1
TOTAL PROGRAM COST	9	90.2	4	37.4	0	9.3	2			10.1.10=										00151047	15	171.2

^{*} Pending proposed Above Threshold Reporgramming action

CLASSIFICATION:

P-1 SHOPPING LIST

P3A (Continued)				INDIVIDU	AL M	ODIFICAT	ION (Continued)														
MODELS OF SYSTEMS A	FFECT	ED: SH	IIP SELF	DEFENSE	SYST	EM (SSDS)		MODIFICAT	ION	TITLE <u>:</u>									-			
INSTALLATION INFORMA	ATION:																					
METHOD OF IMPLEMEN	TATION	Alterat	tion Ins	tallation 1	eam	(AIT)																
ADMINISTRATIVE LEADT	IME:	2 mont	hs			PRODUC	TION	LEADTIME:		10	Moi	nths										
CONTRACT DATES:	FY 2	000:	12/99	- 5/00		FY 2001:		N/A				FY 2	002:		TBD							
DELIVERY DATE:	FY 2	000:	1/01 -	8/01		FY 2001:		N/A				FY 2	002:		TBD							
										(\$ in Millio												
Cost:	Prior Qty	Years \$	FY Qty	[′] 2000 \$	Qty	Y 2001 \$	Qty	FY 2002 \$	Qty	FY 2003 \$	Qty	FY 2004 \$	Qty	Y 2005	F` Qty	Y 2006 \$	F' Qty	Y 2007 \$	To Co Qty	omplete \$	Qty	Total \$
	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Φ	Qty	Ψ	Qty	Ψ	Qty	Φ	Qiy	Ψ	Qty	Ψ	Qty	Ψ	Qty	Φ
PRIOR YEARS	5	19.9	4	9.8		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	9	29.7
FY 2000 EQUIPMENT					4	7.0								0.0		0.0		0.0		0.0	4	7.0
FY 2001 EQUIPMENT							0	0.5													0	0.5
FY 2002 EQUIPMENT																					0	0.0
FY 2003 EQUIPMENT																					0	0.0
FY 2004 EQUIPMENT																					0	0.0
FY 2005 EQUIPMENT																					0	0.0
FY 2006 EQUIPMENT																					0	0.0
FY 2007 EQUIPMENT																					0	0.0
TO COMPLETE																						
INSTALLATION SC		E:										7.										
FY 2000 & Prior		FY 200 2 3			2 <u>002</u> 3	4 1		2003 3 4	1	FY 2004 2 3	4	1 2	2 <u>005</u> 3	11	<u>FY 2</u> 2	3 4	1	FY 2007 2 3	4		TC	TOTAL
IN 9	1	0 2		0 0	0	0															18	31
OUT 9	0	1 1	2	0 0	0	0															18	31
																		P-3A				
						IT	ЕМ	113	P/	AGE 5						CLAS	SIFIC	CATION: U		SSIFIED)	

UNCLASSIFIED

		Е	UDGET ITE	M JUSTIFIC	ATION SHEET	DATE:
				P-40		June 2001
APPROPRIATION/B	UDGET ACTIVI	TY				P-1 ITEM NOMENCLATURE BB
OTHER PROCUI	REMENT, NA	VY	BA-4 Ordna	ance Suppo	rt Equipment	AEGIS SUPPORT EQUIPMENT / 524600/524605
Program Element for	Code B Items:				-	Other Related Program Elements
						0604307N
	Prior	ID				
	Years	Code	FY 2000	FY 2001	FY 2002	
QUANTITY						
COST						
(In Millions)	\$145.4	Α	\$79.5	\$29.4	\$155.1	
SPARES COST			•			
(In Millions)			\$0.6	\$0.9	\$0.5	

PROGRAM DESCRIPTION/JUSTIFICATION:

- 1. This program provides equipments for shore facilities and for shipboard upgrades to support the battle readiness of AEGIS Cruisers and Destroyers in the following areas: a. Special Tooling and Test Equipment for AEGIS unique depots; b. Computer, displays and simulators for the AEGIS Computer Center (ACC) at Dahlgren, VA; c. Weapon/Combat System equipments for the Surface Combat System Center (SCSC) at Wallops Island, VA; d. Weapon System Training equipment for the AEGIS Training & Readiness Center (ATRC) at Dahlgren, VA; e. AEGIS Weapon System ORDALT procurement; f. AEGIS Weapon System SHIPALT procurement; g. Class Common Equipment to support shorter Regular Overhauls and Selected Restricted Availabilities. Includes Weapon and Ship System Components that require long repair turn-around; h. Field Activity Integrated Communications Equipment; i. Smart Ship-Type Systems Engineering Control and Surveillance Equipment (ECSE); j. CG Conversion (includes Area TBMD, Land Attack, & Area Air Defense Commander); k. Shipboard equipment and ORDALT installation.
- 2. The FY 2000-02 funds will be used to upgrade three centers (AEGIS Computer Center, AEGIS Training & Readiness Center, and Surface Combat Systems Center) to properly accommodate CG 47 and DDG 51 Combat System Baselines and to provide shipboard SHIPALT and ORDALT equipments for existing Cruiser and Destroyer Baselines. Funding is also for the installation of equipment including the Fleet Modernization Program, training equipment, and other shore facilities. These include, among others, the following major Weapon/Combat systems:

	DESCRIPTION	APPLICABLE HULLS	
CG BASELINE 1	SPY-1A RADAR	CG-47 - CG 51	
	AEGIS DISPLAY SYSTEM MARK I		
	MARK 26 LAUNCHING SYSTEM		
	LAMPS MARK III HELICOPTER		
	MK 116 MOD 4 UNDERWATER FIRE CONTROL		
	UYK-7/20 COMPUTERS		
CG BASELINE 2			
	CG BASELINE 1 PLUS	CG 52 -CG 58	
	TOMAHAWK WEAPON SYSTEM		
	ANTI-SUBMARINE WARFARE UPGRADE SQQ-89		
	MK 41 VERTICAL LAUNCH SYSTEM IN PLACE OF MK 26		
	BACKFIT COMPUTERS/AN/UYQ-70 DISPLAYS		
	ECSE UPGRADE/COTS COMPUTER		

P-1 SHOPPING LIST

CLASSIFICATION:

ITEM NO. 114 PAGE NO. 1

UNCLASSIFIED

DD Form 2454, JUN 86

DD Form 2454, JUN 86

UNCLASSIFIED

ITEM NO. 114

	BUD	OGET ITEM JUSTIFICATION SHEET		DATE:	
		P-40 CONTINUATION	T===	June	2001
	N/BUDGET ACTIVITY		P-1 ITEM NOME		
OTHER PRO	CUREMENT, NAVY BA	-4 Ordnance Support Equipment		AEGIS SUPPORT EQUIPMENT / 5246	00/524605
Program Elemen	t for Code B Items:		Other Related Pr	rogram Elements	
	DESCRIPTION	APPLICABLE HULLS	DESCRIPTION	<u>APPLICABLE</u>	HULLS
CG BASELINE 3	CG BASELINE 2 PLUS	CG 59 - CG 64	DDG BASELINE 4	CG BASELINE 3 PLUS	DDG 51- DDG
	SPY-1B RADAR IN PLACE OF SPY- UYQ-21 DISPLAYS IN PLACE OF U BACKFIT UYK-43 (LoBoy)/44 COMP ECSE UPGRADE/COTS COMPUTE	YA-4 PUTERS	N	SPY-1D RADAR IN PLACE OF SPY -1B MK 160 GUN COMPUTING SYSTEM IN PLACE OF MK 86 UYK 43/44 COMPUTERS IN PLACE OF UYK -7/20S	
CG BASELINE 4 DDG 78	CG BASELINE 3 PLUS VERTICAL LAUNCH ASROC	CG 65 - CG 73	DDG BASELINE 5	DDG BASELINE 4 PLUS JOINT TACTICAL INFORMATION DISTRIBUTION	DDG 68 -
	SM-2 MISSILE UPGRADE UYK 43/44 COMPUTERS IN PLACE	OF UYK-7/20s		SYSTEM (JTIDS/COMMAND AND CONTROL (C2P) TADIL ECSE UPGRADE/COTS COMPUTERS COMBAT DIRECTION FINDING (CDF) TACTICAL DATA INFORMATION EXCHANGE SYSTWM (TADI AN/SLQ-32(V) 3 ACTIVE ELECTRONIC COUNTERMEASURES AEGIS EXTENDED RANGE (ER) MISSILE	,
CG BASELINE	CG BASELINE 3/4 PLUS	CG 59 - CG 73	DDG BASELINE 6 PH I	DDG BASELINE 5 PLUS	DDG 79 -
DDG 84 6IIIC	BASELINE 6 LAND ATTACK AREA TBMD AREA AIR DEFENSE COMMANDE	(FUTURE) ER (AADC)		ORTS UPGRADE, ECM UPGRADE, ACTS REHOST SQQ-89 (V) 10, ATWCS PHASE 2 AN/UYQ-70, DOPPLER SONAR VELOCITY	
CG BASELINE DDG 90	CG BASELINE 2 PLUS	CG 52 - 58	DDG BASELINE 6 PH II	I DDG BASELINE 6 PH I PLUS	DDG 85 -
7IC DDG 84	BASELINE 7	(FUTURE)		UPGRADES TO AN/UYQ-70 DISPLAY SUIT	DDG 51 -
	LAND ATTACK AREA TBMD			UPGRADES TO ORTS, LSTP, CEC, NAVSSI BLK III CDLMS, JTT, ESSM, STAMO MODS, SPY MODS	

PAGE NO. 2

UNCLASSIFIED

UNCLASSIFIED

	WEAPONS SYSTEM COS P-5	ST ANAL	YSIS			Weapon Sy	stem						DATE:	June 200	 1
	RIATION/BUDGET ACTIVITY Procurement, Navy / BA-4					ID Code		OMENCLATU							
		1				Α	AEGIS SI	JPPORT E	QUIPMENT	524600 /	524605 / A	\4L7			
			TOTAL COS	T IN THOUS	SANDS OF DO	DLLARS									
COST CODE	ELEMENT OF COST	ID Code	Prior Years		FY 2000			FY 2001			FY 2002			T	1
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Co
	SPONSOR N76														
L7001	DEPOT SPECIAL TOOLING/TEST EQPT		1,400			835			450			848			
L7003	AEGIS COMPUTER CENTER EQPT		1,364			1,616			1,000			1,096			
L7004	BASELINE CONSOLIDATION		26,369			0			0			0			
L7005	SMART SHIP TYPE SYSTEMS		46,505 2,721			29,139			15,275	4	7,415	29,659			
L7006	SURFACE COMBAT SYSTEM CENTER EQPT					1,637			742			1,663			
L7007	AEGIS TRAINING & READINESS CENTER		909			2,673			559			1,695			
L7010	AEGIS WEAPON SYSTEM ORDALTS		29,550			7,688			256			5,293			
L7011	AEGIS WEAPON SYSTEM SHIPALTS		11,192			18,505			289			29,970			
L7013	CLASS COMMON EQUIPMENT		485			2,795			0			2,866			
L7016	FIELD ACT'Y INTEGRATED COMM EQPT		427			380			378			384			
L7021	CG CONVERSION		0			0			0	1	66,238	66,238			
L7600	INSTALLATION OF EQPT, FMP		24,501			14,262			10,407			15,401			
	2446, JUN 86		145,423 OPPING LIST			79,530			29,356			155,113 CLASSIFICA			

ITEM NO.

PAGE NO. 3

UNCLASSIFIED

UNCLASSIFIED CLASSIFICATION:

BUDGET PROCUREMENT HISTOR	Y AND PL	ANNING EX	HIBIT (P-5A)			Weapon System		DATE:	June 2001	
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM N	IOMENCLATURE			SUBHEAD	
Other Procurement, Navy					AEGIS SUPF	PORT EQUIPMENT 524600/52	24605		A4L7	
					CONTRACT			DATE OF	SPECS	DATE
Cost Element/	QTY	UNIT	LOCATION	RFP ISSUE	METHOD	CONTRACTOR	AWARD	FIRST	AVAILABLE	REVISIONS
FISCAL YEAR		COST	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLE
FISCAL YEAR 2000										
<u>L7003</u>										
AEGIS COMPUTER CENTER										
COTS UPGRADE	1 LOT	1516	NSWC DD	12/99	FP	VARIOUS	03/00	01/02	YES	
CABLES	1 LOT	100	NSWC DD	12/99	FP	VARIOUS	03/00	01/02	YES	
<u>L7005</u>										
SMARTSHIP TYPE SYSTEMS										
ENGINEERING	1 LOT	10229	NAVSEA	N/A	FP	VARIOUS	N/A	N/A	YES	
TRAINING EQUIPMENT	1 LOT	6600	NAVSEA	N/A	FP	VARIOUS	N/A	N/A	YES	
LOGISTICS	1 LOT	1300	NAVSEA	N/A	FP	VARIOUS	N/A	N/A	YES	
TRAINING	1 LOT	400	NAVSEA	N/A	FP	VARIOUS	N/A	N/A	YES	
WIRELESS SENSORS	1 LOT	4000	NSWC Crane	12/00	FP	AEPTEC-MARYLAND	3/01	TBD	YES	
ENG CHANGE PROPOSALS	1 LOT	1100	NAVSEA	N/A	FP	VARIOUS	N/A	N/A	N/A	
OSD Deferral	1 LOT	5510	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
<u>L7006</u>										
scsc										
SYSTEM ENGINEERING	1 LOT	405	NAVSEA	12/99	FP	LM GES - NEW JERSEY	02/00	12/00	YES	
EQUIPMENT MODERNIZATION	1 LOT	326	NSWC DD	12/99	FP	VARIOUS	02/00	12/00	YES	
COTS UPGRADES	1 LOT	615	NSWC DD	12/99	FP	VARIOUS	02/00	12/00	YES	
EXCOMM EQUIPMENT	1 LOT	31	NAWCAD PAX RI	12/99	FP	VARIOUS	02/00	12/00	YES	
LLS CLOCK EXPANDER	1 LOT	260	NAVSEA	12/99	FP	LM GES - NEW JERSEY	02/00	12/00	YES	
D. REMARKS										

P-1 SHOPPING LIST ITEM NO. 114 Classification: DD Form 2446-1, JUL 87 UNCLASSIFIED PAGE NO. 4

UNCLASSIFIED CLASSIFICATION:

BUDGET PROCUREMENT HISTOR	RY AND F	PLANNING	EXHIBIT (P-5A)			Weapon System		DATE :		
					1				June 200	01
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy						NOMENCLATURE PPORT EQUIPMENT 52460	00/524605		SUBHEAD A4L7	
Other Frocurement, Navy					CONTRACT	FFORT EQUIPMENT 52400	0/324003	DATE OF	SPECS	DATE
Cost Element/	OTY	UNIT	LOCATION	RFP ISSUE	METHOD	CONTRACTOR	AWARD	FIRST	AVAILABLE	REVISIONS
FISCAL YEAR	Q -1	COST	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLE
FISCAL YEAR 2000 (cont)										
<u>L7007</u>										
ATRC										
CAST PART TASK TRAINER	1 LOT	400	CO ATRC	10/98	FP	VARIOUS	02/00	12/00	YES	
FAULT INSERTION DEVICES	1 LOT	401	CO ATRC	01/00	FP	VARIOUS	05/00	05/01	YES	
COTS UPGRADE	1 LOT	872	NSWC DD	10/99	FP	VARIOUS	01/00	01/01	YES	
CLASS	1 LOT	1000	CO ATRC	01/00	FP	ADV ACC CON/VIRGINIA	02/00	12/00	YES	
L7010										
AWS ORDALTS										
FAULT INDICATORS TB1019	58	8	NAVSEA	04/99	воа	LM GES - NEW JERSEY	05/00	06/01	YES	
ANTENNA HEATER	41	20	NAVSEA	04/99	воа	RAYTHEON - MASSACHU	05/00	06/01	YES	
FAINT/INVERTER	9	200	NAVSEA	05/99	ВОА	RAYTHEON - MASSACHU	05/00	05/01	YES	
PWR SUPPLY CIR BRKERS	26	24	NAVSEA	05/99	ВОА	RAYTHEON - MASSACHU	05/00	05/01	YES	
DOPPLER & CLUTTER GEN	3	295	NAVSEA	05/99	BOA	LM GES - NEW JERSEY	05/00	05/01	YES	
OUTPUT FILTER CABLE	38	13	DCMA/SANTA ANA	04/99	FP	VARIOUS	05/00	06/01	YES	
TWT BIAS FAULT CIRCUIT	66	11	NAVSEA	04/99	BOA	RAYTHEON - MASSACHU	05/00	06/01	YES	
OL-267 SYS CLK STABILITY	41	3	NAVSEA	04/99	BOA	LM GES - NEW JERSEY	05/00	06/01	YES	
PHASED ARRAY ANTENNA STROBE	45	12	NAVSEA	05/99	BOA	LM GES - NEW JERSEY	05/00	06/01	YES	
DMS CIRCUIT CARD	150	7	NAVSEA 05K	04/99	FP	VARIOUS	12/99	01/01	YES	
TWO WAY AIR REGULATOR	40	4.05	NAVSEA	04/99	BOA	LM GES - NEW JERSEY	06/00	02/01	YES	
<u>L7011</u>										
AWS SHIPALTS										
TIP	5	1100	NAVSEA	04/99	воа	LM GES - NEW JERSEY	04/00	02/01	YES	
TIP SWITCH	4	50	NAVSEA	04/99	ВОА	LM GES - NEW JERSEY	04/00	02/01	YES	
D. REMARKS									<u> </u>	

P-1 SHOPPING LIST ITEM NO. 114 Classification: DD Form 2446-1, JUL 87

PAGE NO. 5 UNCLASSIFIED

BUDGET PROCUREMENT HISTO	ORY AND PLA	ANNING EX	(HIBIT (P-5A)			Weapon System		DATE :	June 2001	
B. APPROPRIATION/BUDGET ACTIVITY			, ,		C. P-1 ITEM N	IOMENCLATURE		•	SUBHEAD	
Other Procurement, Navy					AEGIS SUF	PORT EQUIPMENT 52460	00 / 524605		A4L7	
					CONTRACT			DATE OF	SPECS	DATE
Cost Element/	QTY	UNIT	LOCATION	RFP ISSUE	METHOD	CONTRACTOR	AWARD	FIRST	AVAILABLE	REVISIONS
FISCAL YEAR		COST	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLE
FISCAL YEAR 2000 (cont)										
L7011 (cont)										
AWS SHIPALTS										
6 PH III UPGRADE KITS	1 LOT	4394	NAVSEA	04/00	FP	LM TDS - MINNESOTA	04/00	04/00	YES	
AN/UYK TVM BATTERIES	18	26	NCCOSC	04/00	N/A	VARIOUS -CALIFORNIA	06/00	02/00	YES	
CLSD	10	184	NCCOSC	04/00	FP	VARIOUS -CALIFORNIA	04/00	10/00	YES	
PWS/WCS UYK-43 UPGRADE	11	8	NAVSEA	04/00	BOA	LM TDS - MINNESOTA	04/00	12/00	YES	
UYK-43 UPGRADE BFTT	23	20	NAVSEA	04/00	BOA	LM TDS - MINNESOTA	04/00	04/01	YES	
UYK-43 UPGRADE 6 PH III	1 LOT	4139	NSWC PHD	04/00	FP	VARIOUS - VIRGINIA	11/99	04/01	YES	
UYK-43 PROM CARDS	1 LOT	800	NAVSEA	04/00	BOA	LMTDS- MINNESOTA	11/99	01/00	YES	
HALON UPGRADE	1	616	NSWC PHD ECO	12/99	FP	VARIOUS - VIRGINIA	07/00	06/00	YES	
<u>L7013</u>										
CLASS COMMON EQUIPMENT										
CCE FOR DDG 51 CLASS	1 LOT	1398	SUPSHIP/BATH	03/00	FP	BIW - MAINE	04/00	01/01	YES	
CCE FOR CG 47 CLASS	1 LOT	1397	SUPSHIP/PASC	03/00	FP	ISI LITTON - MISSISSIPPI	04/00	01/01	YES	
FISCAL YEAR 2001										
L7003										
AEGIS COMPUTER CENTER										
COTS UPGRADE	1 LOT	800	NSWC DD	12/00	FP	VARIOUS	03/01	03/02	YES	
CABLES	1 LOT	200	NSWC DD	12/00	FP	VARIOUS	03/01	03/02	YES	
<u>L7005</u>										
SMARTSHIP TYPE SYSTEMS										
ENGINEERING	1 LOT	5278	NSWC PHIL	TBD	FP	VARIOUS	TBD	TBD	N/A	
LOGISTICS	1 LOT	2043	NAVSEA	N/A	FP	VARIOUS	N/A	N/A	N/A	
TRAINING	1 LOT	454	NAVSEA	N/A	FP	VARIOUS	N/A	N/A	N/A	
ENG CHANGE PROPOSAL	1 LOT	2500	NAVSEA	N/A	FP	VARIOUS	TBD	TBD	N/A	
WIRELESS SENSORS	1 LOT	5000	NSWC Crane	N/A	FP	AEPTEC - MD	N/A	N/A	YES	
D. REMARKS:										

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST ITEM NO. 114 Classification:

PAGE NO. 6 UNCLASSIFIED

BUDGET PROCUREMENT HISTOR	RY AND PL	ANNING E	XHIBIT (P-5A)			Weapon System		DATE:	June 2001	
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM N	IOMENCLATURE		•	SUBHEAD	
Other Procurement, Navy					AEGIS SUF	PORT EQUIPMENT 52460	00 / 524605		A4L7	
					CONTRACT			DATE OF	SPECS	DATE
Cost Element/	QTY	UNIT	LOCATION	RFP ISSUE	METHOD	CONTRACTOR	AWARD	FIRST	AVAILABLE	REVISIONS
FISCAL YEAR		COST	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLE
FISCAL YEAR 2001 (cont)										
<u>L7006</u>										
scsc										
SYSTEM ENGINEERING	1 LOT	300	NAVSEA	12/00	FP	LOCKHEED - NEW JERSEY	3/01	09/01	YES	
EQUIPMENT MODERNIZATION	1 LOT	410	NSWC DD	12/00	FP	VARIOUS	3/01	09/01	YES	
EXCOMM EQUIPMENT	1 LOT	32	NAWCAD PAX RI	12/00	FP	VARIOUS	3/01	09/01	YES	
<u>L7007</u>										
ATRC										
COTS UPGRADE	1 LOT	559	NSWC DD	08/00	FP	VARIOUS	11/00	01/01	YES	
L7010										
AWS ORDALTS										
FAINT INVERTER	1	200	NAVSEA	08/00	BOA	RAYTHEON- MASS	11/00	05/01	YES	
FIRE INHIBIT SWITCH	1	56	NAVSEA	08/00	воа	LM GES - NEW JERSEY	11/00	05/01	YES	
L7011										
AWS SHIPALTS										
TIP CABINET	1 LOT	289	NAVSEA	08/00	воа	LM GES - NEW JERSEY	11/00	3/02	YES	
L7013										
CLASS COMMON EQUIPMENT										
NONE										
D. REMARKS:										

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST ITEM NO. 114 Classification:

PAGE NO. 7 UNCLASSIFIED

UNCLASSIFIED CLASSIFICATION:

BUDGET PROCUREMENT HISTOR	Y AND P	LANNING	EXHIBIT (P-5A)			Weapon System		DATE:	June 2001	
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM	OMENCLATURE			SUBHEAD	
Other Procurement, Navy					AEGIS SUF	PORT EQUIPMENT 5246	00/524605		A4L7	•
					CONTRACT			DATE OF	SPECS	DATE
Cost Element/	QTY	UNIT	LOCATION	RFP ISSUE	METHOD	CONTRACTOR	AWARD	FIRST	AVAILABLE	REVISIONS
FISCAL YEAR		COST	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLE
FISCAL YEAR 2002										
<u>L7003</u>										
AEGIS COMPUTER CENTER										
COMMERCIAL SYS MOD	1 LOT	896	NSWC DD	N/A	FP	VARIOUS	11/01	02/02	YES	
CABLES	1 LOT	200	NSWC DD	N/A	FP	VARIOUS	11/01	02/02	YES	
<u>L7005</u>										
SMARTSHIP TYPE SYSTEMS										
SMARTSHIP UPGRADE (CG)	3	5200	NAVSEA	12/01	FP	VARIOUS	11/01	3/02	YES	
TEST EQUIPMENT (DDG LBES)	1	5800	NSWC PHIL	TBD	FP	TBD	TBD	TBD	YES	
ENGINEERING	1 LOT	6572	NSWC PHIL	N/A	FP	VARIOUS	11/01	11/02	YES	
LOGISTICS	1 LOT	950	NAVSEA	N/A	FP	VARIOUS	11/01	11/02	YES	
TRAINING	1 LOT	737	NAVSEA	N/A	FP	VARIOUS	11/01	11/02	YES	
<u>L7006</u>										
scsc										
COTS UPGRADES	1 LOT	655	NSWC DD	N/A	RCP	VARIOUS	11/01	2/02	YES	
SYSTEMS ENGINEERING	1 LOT	350	NAVSEA	N/A	RCP	LM GES - NEW JERSEY	11/01	2/02	YES	
COTS MODERNIZATION & SWITCHING	1 LOT	625	NSWC DD	08/01	RCP	LM TDS - MINNESOTA	11/01	2/02	YES	
EXCOMM	1 LOT	33	NAWCAD/PAX	08/01	RCP	VARIOUS	11/01	2/02	YES	
<u>L7007</u>										
ATRC										
COTS MODERNIZATION	1 LOT	1695	NSWC DD	09/01	BOA	VARIOUS	10/01	04/02	YES	
AND SWITCHING										
D. REMARKS					<u> </u>	<u> </u>			<u> </u>	

P-1 SHOPPING LIST ITEM NO. 114 Classification: DD Form 2446-1, JUL 87 PAGE NO. 8

UNCLASSIFIED CLASSIFICATION:

			-			Weapon System		DATE:		
					1.				June 200)1
B. APPROPRIATION/BUDGET ACTIVITY						IOMENCLATURE	4C0E		SUBHEAD	
Other Procurement, Navy					CONTRACT	ORT EQUIPMENT 524600/52	4605	DATE OF	SPECS	DATE
Cost Element/	OTY	UNIT	LOCATION	RFP ISSUE	METHOD	CONTRACTOR	AWARD	FIRST	AVAILABLE	REVISIONS
FISCAL YEAR	QII	COST	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLE
FISCAL YEAR 2002 (cont)										
<u>L7010</u>										
AWS ORDALTS										
DOPPLER CLUTTER FIX	3	275	NAVSEA	09/01	BOA	LM GES - NEW JERSEY	12/01	10/02	YES	825
FAINT INVERTER	6	200	NAVSEA	09/01	BOA	RAYTHEON - MASSACHU	11/01	10/02	YES	1200
STAMO	2	864	NAVSEA	09/01	BOA	RAYTHEON - MASSACHU	11/01	01/03	YES	1728
SPY AIR FLOW FILER UPGRD	1 LOT	943	NAVSEA	09/01	BOA	LM GES - NEW JERSEY	12/01	10/02	YES	943
MK18 CND/UWS INTERFACE	1 LOT	263.6	NAVSEA	09/01	BOA	LM GES - NEW JERSEY	12/01	10/02	YES	263.6
COTS UPGRADES	S 1 LOT 333.4 NAVSEA 09					VARIOUS	11/01	06/02	YES	333.4
										5293
<u>L7011</u>										
AWS SHIPALTS										
TIP CABINET	8	1100	NAVSEA	08/01	BOA	LM GES - NEW JERSEY	12/01	09/03	YES	8800
TIP SWITCH	8	50	NSWC PHD	09/00	FP	VARIOUS	10/01	12/02	YES	400
Q-70 COTS UPGRADES	1 LOT	1871	NAVSEA	08/01	BOA	LM TDS - MINNESOTA	12/01	12/02	YES	1871
UYK-43 UPGRADES	1 LOT	1272	NAVSEA	08/01	BOA	LM TDS - MINNESOTA	12/01	12/02	YES	1272
UYK-43 UNVERSAL CARDS	1 LOT	1064	NSWC PHD ECO	08/01	FP	VARIOUS	12/01	12/02	YES	1064
Q-70 SUPPORTING CEC	1 LOT	9929	NAVSEA	08/00	BOA	LM TDS - MINNESOTA	12/01	12/02	YES	9929
Q-70 ANCILLARY EQUIP - CEC	1 LOT	6634	NAVSEA	08/00	BOA	LM GES - NEW JERSEY	12/01	12/02	YES	6634
										29970
<u>L7013</u>										
CLASS COMMON EQUIPMENT										
CCE FOR DDG-51 CLASS	1 LOT	1433	SUPSHIP/BATH	08/01	FP	BIW - MAINE	11/01	08/02	YES	
CCE FOR CG-47 CLASS	1 LOT	1433	SUPSHIP/PASC	08/01	FP	ISI LITTON - MISSISSIPPI	11/01	08/02	YES	
D. REMARKS										

114 Classification: P-1 SHOPPING LIS ITEM NO. DD Form 2446-1, JUL 87 PAGE NO.

BUDGET PROCUREMENT HISTORY	AND PLAN	NING EXHIBI	T (P-5A)			Weapon System		DATE:	1 000	
B. APPROPRIATION/BUDGET ACTIVITY					C P-1 ITEM I	 NOMENCLATURE			June 200 SUBHEAD	1
Other Procurement, Navy						PORT EQUIPMENT 524600/	524605		A4L7	
,					CONTRACT			DATE OF	SPECS	DATE
Cost Element/	QTY	UNIT	LOCATION	RFP ISSUE	METHOD	CONTRACTOR	AWARD	FIRST	AVAILABLE	REVISIONS
FISCAL YEAR		COST	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLE
FISCAL YEAR 2002 (cont)										
<u>L7021</u>										
CRUISER CONVERSION										
MK 160 GFCS	1	5476	NSWC PHD	N/A	N/A	VARIOUS	11/01	05/01	NO	
MK46 OSS	2	1800	NAVSEA	08/01	FFP	TBD	03/02	06/04	NO	
AWS MOD KITS	1 LOT	16599	NAVSEA	TBD	FFP	LMTS	TBD	TBD	YES	
COMPUTER & DISPLAYS COTS	1 LOT	22138	NAVSEA	TBD	FFP	TBD	TBD	TBD	YES	
LOGISTICS	1 LOT	200	NSWC PHD	N/A	N/A	VARIOUS	11/01	TBD	N/A	
TRAINING	1 LOT	1900	NSWC DD	N/A	N/A	VARIOUS	11/01	TBD	N/A	
TBMD SITES EQUIPMENT (NJ)	1 LOT	15053	NAVSEA	TBD	FFP	VARIOUS	TBD	TBD	YES	
LAND ATTACK SITES EQUIP (NJ)	1 LOT	1272	NAVSEA	TBD	FFP	VARIOUS	TBD	TBD	YES	
D. REMARKS					1					

DD Form 2446-1, JUL 87 P-1 SHOPPING LIS ITEM NO. 114 Classification:

PAGE NO. 10 UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED																						
P3A		INDIVIDUA	AL MO	DIFICA	TION	_																
MODELS OF SYSTEM AFFECTED:	AEGI	S WEAPON	S SYST	TEMS	_ TY	PE MOI	DIFICA	ATION:	DEPO	OT SPEC	IAL T	OOLING	<u>i</u> _		MOD	IFICATI	T NC	ITLE:				_
DESCRIPTION/JUSTIFICATION:																						
Depot Special Tooling and Test Equipmer This special support equipment is required not be able to support its mission.																			will f	all into disre	epair and v	'
DEVELOPMENT STATUS/MAJOR DEVEL	.OPMI	ENT MILES	TONE	S:																		
	FY 1	999 & Prior	FΥ	2000	FΥ	2001		FY 2002														
	QTY	\$	QTY		QTY		QTY	\$		1	1	1		1						1	T	
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT	VAR	1.4	VAR	0.8	VAR	0.5	VAR	0.8														
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST																						
TOTAL PROGRAM COST		1.4		0.8		0.5		0.8		0.0		0.0		0.0		0.0		0.0		TBD		0.0

ITEM 114 PAGE NO. 11 TBD 0.0

CLASSIFICATION: UNCLASSIFIED

UNCLASSIFIED

P3A		INDIVIDUA	I MO	DIEICAT	TION.																
IF3A		INDIVIDUA	L IVIO	DIFICA	ION																
MODELS OF SYSTEM AFFECTED:	AEGI	S WEAPONS	SYS	TEMS	TYP	MODIF	FICAT	ION:	AEGI	S COMP	UTEF	R CENTE	R		MOE	DIFICATI	ON T	ITLE:			
DESCRIPTION/JUSTIFICATION:																					
The AEGIS Computer Center (ACC) requ	ires O	PN equipm	ent up	grades i	in orde	er to mai	ntain	testing c	apabili	ties for ba	ackfit	compute	r prog	gram base	elines	i.					
DEVELOPMENT STATUS/MAJOR DEVEL	.OPMI	ENT MILES	TONE	S:								<u>.</u>									
	FY 19	999 & Prior	FY	2000	FY	2001		FY 200	2												
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	1			1	1		ı	ı	ı		1	ı	_
FINANCIAL PLAN (IN MILLIONS)																					
RDT&E																					
<u>PROCUREMENT</u>																					
INSTALLATION KITS																					
INSTALLATION KITS - UNIT COST																					
INSTALLATION KITS NONRECURRING																					
EQUIPMENT	VAR	1.4	VAR	1.6	VAR	1.0	VAR	1.1													
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST																					
TOTAL PROGRAM COST		1.4		1.6		1.0		1.1													

ITEM 114 PAGE NO. 12

РЗА		INDIVIDU	AL MC	DIFICATION	ON											
MODELS OF SYSTEM AFFECTED:	AEGI	S WEAPON	IS SYS	STEM	TYP	E MODIFIC	ATION	:	SMA	RTSHIP		MODIFICATION	TITLE	≣:		
DESCRIPTION/JUSTIFICATION:																
Funds will be used to backfit labor saving	Smarts	hip enablin	g tech	nologies or	n CG an	d DDG clas	s ships									
DEVELOPMENT STATISSIAN IOD DEVEL	201151	IT MIL FOT	ONEO													
DEVELOPMENT STATUS/MAJOR DEVELO	JPIVIEN	II MILEST	ONE 5	:												
		999 & Prio		FY 2000		FY 2001		FY 2002								
	QTY	\$	QTY	\$	QTY	\$	QTY	\$					1			
FINANCIAL PLAN (IN MILLIONS)																
<u>RDT&E</u>																
PROCUREMENT																
INSTALLATION KITS																
INSTALLATION KITS - UNIT COST																
INSTALLATION KITS NONRECURRING																
EQUIPMENT	4	34.0	0	0.0	0	0.0	3	15.6								
EQUIPMENT NONRECURRING		1.0		4.0		5.0										
TEST EQUIPMENT		2.3					1	5.8								
TRAINING EQUIPMENT				6.6												
SUPPORT EQUIPMENT			*	5.5												
ENGINEERING		8.9		10.2		5.3		6.6								
LOGISTICS		0.0		1.3		2.0		1.0								
TRAINING		0.0		0.4		0.5		0.7								
ENGINEERING CHANGE PROPOSALS		0.3		1.1		2.5										
INSTALL COST		0.0		0.0		7.3		5.4								

ITEM 114

PAGE NO.

CLASSIFICATION: UNCLASSIFIED

22.6

^{* \$5.5}m OSD Deferral

P3A (Continued)					INDIVIDU	AL MO	DIFICATION	ON (Co	ontinued)												
MODELS OF SYS	STEMS AF	FECTE	ED:	AWS			_	MOI	DIFICATIO	TIT NC	L <u>E:</u>	SMA	RTSHIP						-		
INSTALLATION II	NFORMAT	ION:																			
METHOD OF IMP	PLEMENTA	TION:				_															
ADMINISTRATIVI	E LEADTIN	⁄IЕ: _	12	month	s		PRODUC	CTION	LEADTIN	ΛE:	12 mo	nths		_							
CONTRACT DAT	ES:	FY 20	000:	N/A		_	FY 2001		N/	Α			FY 2	2002:	Janu	ary 02					
DELIVERY DATE	:	FY 20	000:	N/A	1	_	FY 2001			N/A			FY 2	2002:	Janu	ary 03					
											(\$ in Milli	ons)									
Cost:			r Years		Y 2000		Y 2001		Y 2002									1			
		Qty	\$	Qty	\$	Qty	\$	Qty	\$												
PRIOR YEARS		3 *	0.0			1	7.3														
FY 2000 EQUIP	MENT																				
FY 2001 EQUIP	MENT																				
FY 2002 EQUIP	MENT							1	5.4												
FY 2003 EQUIP	MENT																				
FY 2004 EQUIP	MENT																				
FY 2005 EQUIP	MENT																				
FY 2006 EQUIP	MENT																				
FY 2007 EQUIP	MENT																				
TO COMPLETE																					
INSTALLA ⁻	TION SCHE	=DIII F	= •																		
l r	FY 2000		FY 2001	ı	EV	2002															
	& Prior	1	2 3		1 2		4														
IN	var				var va																
OUT	var	var	var var	r var	var va	r var	var														
* Funding for FY9 ** Qty 1 FY02 ship	9 and prior oset is for L	install BES s	ations bu short site	idgeted and is i	in equipm not include	ent pro d here.	curement I	ine (se	e P3A pa	ge 14).	. Funding tr	ansferi	ed to instal	lation lir	ne for FY0	01 and	outyears.				

ITEM 114 PAGE 14 CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED INDIVIDUAL MODIFICATION MODELS OF SYSTEM AFFECTED: AEGIS WEAPONS SYSTEMS TYPE MODIFICATION: SURFACE COMBAT SYSTEM CENTER MODIFICATION TITLE: DESCRIPTION/JUSTIFICATION: The Surface Combat System Center (SCSC) AT Wallops Island, VA. requires OPN equipment upgrades in order to maintain testing and training capabilities for the Fleet. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FY 1999 & Prior FY 2000 FY 2001 FY 2002 QTY \$ QTY \$ QTY \$ QTY \$ FINANCIAL PLAN (IN MILLIONS) RDT&E **PROCUREMENT INSTALLATION KITS INSTALLATION KITS - UNIT COST** INSTALLATION KITS NONRECURRING VAR **EQUIPMENT** 2.7 VAR 1.6 VAR 0.7 VAR 1.7 **EQUIPMENT NONRECURRING ENGINEERING CHANGE ORDERS** DATA TRAINING EQUIPMENT SUPPORT EQUIPMENT OTHER OTHER OTHER INTERIM CONTRACTOR SUPPORT **INSTALL COST**

ITEM 114

PAGE NO. 15

1.7

TOTAL PROGRAM COST

2.7

1.6

0.7

P3A		INDIVIDU	AL MO	DIFICA	TION																
MODELS OF SYSTEM AFFECTED:	AEGIS	S WEAPON	S SYST	EMS	TYPI	E MODI	FICAT	ION:	AEG	IS TRAIN	ING 8	READII	NESS	CENTE	₹			MODIFIC	CATIC	ON TITLE:	_
DESCRIPTION/JUSTIFICATION:																					
This program provides for the upgrade of	the ec	quipment a	t the A	EGIS T	raining	and Re	adines	ss cente	r so tha	at the site	can	maintain	trainir	ng capab	lities	for the F	eet.				
DEVELOPMENT STATUS/MAJOR DEVEL	OPME	ENT MILES	STONE	S:								•									
	FY 19 QTY	999 & Prioi \$	r <u>F)</u> QTY	<u>2000</u>		<u>/ 2001</u> \$	<u>E`</u> QTY	<u>Y 2002</u> \$													
FINANCIAL PLAN (IN MILLIONS)		-																			
RDT&E																					
PROCUREMENT																					
INSTALLATION KITS																					
INSTALLATION KITS - UNIT COST																					
INSTALLATION KITS NONRECURRING																					
EQUIPMENT	VAR	0.9	VAR	2.7	VAR	0.6	VAR	1.7													
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST							1														

ITEM 114

PAGE NO. 16

0.9

TOTAL PROGRAM COST

2.7

0.6

CLASSIFICATION: UNCLASSIFIED																						
P3A		INDIVIDUA	L MODI	FICATIO	N																	
MODELS OF SYSTEM AFFECTED:	AEGIS V	VEAPONS S	YSTEM		TYP	E MODI	FICAT	ION:	AWS	ORDAL	TS	-			MOE	DIFICAT	ION T	TTLE:				-
DESCRIPTION/JUSTIFICATION:																						
This program provides for procurement and life of the ships.	installation	of safety,	required	fielding,	and o	perabilit	y modi	ifications	to cor	e AEGIS	S Wea	pon Sys	tem (A	WS) ele	ments	. These	e requi	irements	conti	nue through	ı the	
DEVELOPMENT STATUS/MAJOR DEVELO	PMENT MI	LESTONE	S:									_										
	FY 19	99 & Prior	FY	2000	F\	′ 2001	FY	2002				-										
	QTY	\$	QTY	\$		\$					1	1	1				ı		1			1
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT	VAR	29.6	VAR	7.7	VAR	0.3	VAR	5.3														
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST		12.4		3.0		0.8		4.4														
TOTAL PROGRAM COST		42.0		10.7		1.0		9.7														
								ITEM	114	PAGI	E NO.	17							CLA	SSIFICATI	ON: UNCL	ASSIFIED.

P3A (Continued)					INDIVIDU	AL M	DDIFICATI	ON (C	ontinued))												
MODELS OF SYSTEM	MS AFFE	ECTE	D:	AWS			_	MOE	DIFICATIO	N TIT	L <u>E:</u>	ORE	NANCE AL	TERA	TIONS					=		
INSTALLATION INFO	RMATIC	N:																				
METHOD OF IMPLEM	/ENTAT	ION:	AΙΊ	(PHD)	_																
ADMINISTRATIVE LE	ADTIME	<u> </u>		Month	ns		PRODUC	TION	LEADTIM	E:		Mon	ths	-								
CONTRACT DATES:	F	Y 20	00: <u>Ju</u>	ine 00			FY 2001:		Novemb	oer 00			FY 2	002:	De	cembe	01					
DELIVERY DATE:	F	Y 20	00: <u>A</u>	oril 01			FY 2001:		March	n 02			FY 2	002:	Sep	tembe	r 03					
											(\$ in Mill	ions)										
Cost:	F	Prior	Years		2000		Y 2001		Y 2002		(ψ ιν											
	C	Qty	\$	Qty	\$	Qty	\$	Qty	\$													
PRIOR YEARS			12.4	VAR	3.0																	
FY 2000 EQUIPMEN	IT					VAR	0.8															
FY 2001 EQUIPMEN	IT							VAR	4.4													
FY 2002 EQUIPMEN	IT																					
FY 2003 EQUIPMEN	IT																					
FY 2004 EQUIPMEN	IT																					
FY 2005 EQUIPMEN	IT																					
FY 2006 EQUIPMEN	IT																					
FY 2007 EQUIPMEN	IT																					
TO COMPLETE																						
INSTALLATION										1							1					
	2000 Prior		FY 200 ⁻ 2 3		1 2	<u>2002</u> 3	4															
					var var																	
OUT v	ar v	var	var var	var	var var	var	var															
																			P-3A	<u> </u>		
							ľ	TEM	114	P/	AGE 18						CLAS	SSIFIC	CATION: U	INCL	ASSIFIED	

P3A		INDIVIDUA	L MOI	DIFICATION	ON																	
MODELS OF SYSTEM AFFECTED:	AEGIS	WEAPONS	SYSTE	М	TYPE	MODIF	FICAT	ION:	AWS	SHIPAL	TS				MOD	IFICATIO	N TI	ΓLE:				
DESCRIPTION/JUSTIFICATION:																						
This program provides for procurement of scope and will be installed primarily by Alte	materia eration	al required to Installation	suppo Teams	ort installa and in Pu	ation of ublic o	f safety, r Private	fieldin Shipy	g, and d ards.	perabil	ity modif	ication	ns. The	se requ	irement	s conti	nue thro	ugh th	e life of t	ne ship	s. These	SHIPALT	S vary in
DEVELOPMENT STATUS/MAJOR DEVEL	OPME	NT MILEST	ONES:																			
	FY 19 QTY	999 & Prior \$	<u>F`</u> QTY	<u>/ 2000</u> \$	<u>FY</u> QTY	<u>2001</u>	<u>FY</u> QTY	<u>′ 2002</u> \$														
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
PROCUREMENT																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT	VAR	11.2	VAR	18.5	VAR	0.3	VAR	30.0														
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST		12.1		11.2		2.3		3.7														
TOTAL PROGRAM COST		23.3		29.7		2.6		33.7 ITEM			E NO.	19										CLASSIFIED

ITEM 114 PAGE NO. 19

P3A (Continued)					INDIVID	UAL M	ODIFICA	TION (C	Continued)														
MODELS OF SYS	STEMS AF	FECT	ED <u>:</u>	AWS			=	MOD	IFICATION	TITLE:	AWS	SHIP	ALTERATI	ONS						_			
INSTALLATION I	NFORMAT	ΓΙΟΝ:																					
METHOD OF IMP	PLEMENTA	ATION	: Pu	blic & F	Private SI	hipyard	Availabili	ties; Al7	Γ														
ADMINISTRATIVI	E LEADTIN	ME:					PRODU	JCTION	LEADTIME	: _				_									
CONTRACT DAT	ES:	FY 20	000: <u>J</u> ı	uly 00			FY 200	1:	Novemb	er 00			FY	2002:		ecembe	r 01	_					
DELIVERY DATE	:	FY 20	000: Ju	ıne 01			FY 200	1:	March	02			FY	2002:		January	03	_					
											(\$ in I	Millions)											
Cost:			Years		2000		2001		Y 2002					FY	2003	01							*
		Qty	\$	Qty	\$	Qty	\$	Qty	\$							Qty		1	1			1	\$
PRIOR YEARS		VAR	12.1	VAR	11.2																		23.3
FY 2000 EQUIPI	MENT					VAR	2.3	3															2.3
FY 2001 EQUIPI	MENT							VAR	3.7														3.7
FY 2002 EQUIPI	MENT																						0.0
FY 2003 EQUIPI	MENT																						0.0
FY 2004 EQUIPI	MENT																						0.0
FY 2005 EQUIPI	MENT																						0.0
FY 2006EQUIPN	/ENT																						0.0
FY 2007 EQUIPI	MENT																						0.0
TO COMPLETE																							TBD
INSTALLAT	TION SCH	EDUL	E:																				
	FY 2000		FY 200	<u>11</u>	FY	2002																	
	& Prior	1	2 3	4	1 2	3	4																
IN	var	var	var var	var	var var	var	var																
OUT	var	var	var var	var	var var	var	var																
																			P-:	3A			
								ITEM	114	PA	GE 20						CLA	SSIFIC	ATION: U		SIFIED		

CLASSIFICATION: UNCLASSIFIED																						
РЗА		INDIVIDUA	AL MO	DIFICA	TION																	
MODELS OF SYSTEM AFFECTED:	AEGIS	S WEAPONS	SYST	EMS	TYPI	E MODI	FICAT	ION:	CLAS	SS COM	ION I	EQUIPMI	ENT		MOE	IFICATI	ON T	ITLE:				_
DESCRIPTION/JUSTIFICATION:																						
CLASS Common Equipment is battle spa and DDG-51 Ship Classes will each need									/ards i	n Pascag	oula,	MS and I	Bath,	ME. This	s equ	pment is	typic	ally long	lead	items that	the CG-47	
DEVELOPMENT STATUS/MAJOR DEVEL	OPM	ENT MILES	STONE	S:								-										
	FY 19	999 & Prior	F	<u>/ 2000</u>	F١	<u>/ 2001</u>	F`	Y 2002														
	QTY	\$		\$	QTY		QTY		1	T		I	1	I	1			I		1	1	1
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT	VAR	0.5	VAR	2.8	VAR	0.0	VAR	2.9														
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST																						

ITEM 114

CLASSIFICATION: UNCLASSIFIED

PAGE NO. 21

TOTAL PROGRAM COST

CLASSIFICATION: UNCLASSIFIED																						
P3A		INDIVIDUA	AL MO	DIFICA	TION																	
MODELS OF SYSTEM AFFECTED:	AEGIS	S WEAPONS	SYST	EMS	TYPE	MODI	FICAT	ION:	FIELI	D ACT'Y.	INTE	G. COM	MON	EQUIP			MOD	IFICATI	ON T	ITLE:		
DESCRIPTION/JUSTIFICATION:																						
Field Activity Integrated equipment is re keeping CG-47 and DDG-51 events coo										with a fie	ld act	ivities an	d NA	VAL Ship	yards	. This co	ommu	inication	s gea	r is necess	ary for	
DEVELOPMENT STATUS/MAJOR DEVEL	.OPME	ENT MILES	STONE	S:								_										
	FY 19 QTY	999 & Prior \$	<u>FY</u> QTY	<u>2000</u>	<u>FY</u> QTY	<u>′ 2001</u> \$	<u>F`</u> QTY	<u>/ 2002</u> \$														
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT	VAR	0.4	VAR	0.4	VAR	0.4	VAR	0.4														
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST																						

ITEM 114

CLASSIFICATION: UNCLASSIFIED

PAGE NO. 22

0.4

0.4

TOTAL PROGRAM COST

0.4

0.4

UNCLASSIFIED

UNCLASSIFIED																				
P3A		INDIVIDUA	L MO	DIFICA	TION															
MODELS OF SYSTEM AFFECTED:	AEGI	IS CRUISERS	3	_	TYP	E MODI	FICAT	ION:	CG (CONVERS	ION			I	MODIF	ICATIO	N TIT	LE:		
DESCRIPTION/JUSTIFICATION:																				
Funds will be used to bring new combat of Note: AADC Comm Suite separately fund		ilites to CG 4	17 clas	ss ships	, inclu	ding Are	ea TBN	ID, Lan	d Attac	k, and Are	a Air	Defense	Comma	nder.						
DEVELOPMENT STATUS/MAJOR DEVEL	.OPMI	ENT MILES	TONE	S:								-								
	EV 1	999 & Prior	ΕV	/ 2000	E/	Y 2001	EV	2002												
	QTY		QTY			<u> </u>	QTY													
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT							1	43.5												
EQUIPMENT NONRECURRING								4.3												
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
LOGISTICS								0.2												
TRAINING								1.9												
SITES EQUIPMENT								16.3												
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST								1.9												
TOTAL PROGRAM COST								68.1												

^{*}Planning for availability in following year. ITEM 114 PAGE NO. 23 CLASSIFICATION: UNCLASSIFIED

P3A (Continued)					INDI	VIDU	AL M	ODIFIC	ATION (Continue	d)											
MODELS OF SYS	TEMS AFF	ECTE	D:	AEGI	S CRI	UISE	RS	_	MC	DIFICATI	ON TIT	.E <u>:</u>		CG CONVERSI	ON							
INSTALLATION IN	NFORMATI	ION:																				
METHOD OF IMP	LEMENTA	TION:		Public	c & Pr	rivate	Shipy	ard Ava	ilabilities	S												
ADMINISTRATIVE	ELEADTIM	1E:		3 Mon	ths			PROD	UCTION	LEADTIN	ΛE:	2	21 Mon	nths								
CONTRACT DATE		FY 20		N/A				FY 200			N/A			FY 2002:	-		TBD					
DELIVERY DATE:		FY 20	000:	N/A				FY 200)1:		N/A			FY 2002:			TBD					
							T						(\$ in M	lillions)								
Cost:			Years		Y 200			Y 2001		FY 2002					FY	2003		01				
		Qty	\$	Qty		\$	Qty	\$	Qty	\$								Qty				
PRIOR YEARS																						
FY 2000 EQUIPM	MENT																					
FY 2001 EQUIPM	MENT																				\perp	
FY 2002 EQUIPM	MENT								*		1.9											
FY 2003 EQUIPM	MENT																				_	
FY 2004 EQUIPM	MENT																					
FY 2005 EQUIPN	MENT																					
FY 2006EQUIPM	1ENT																					
FY 2007 EQUIPM	MENT																					
TO COMPLETE																						
INSTALLAT	TION SCHE	EDULE	<u>:</u>																			
	FY 2000 & Prior	1	FY 200 2 3		1		<u>2002</u> 3	4														
IN	0	0	0 0		0	0	0	0											· —— ——			
OUT	0	0	0 0		0	0	0	0														
*/** Design Service	e Allocation	n and A	Advance	Plannir	ng														P-3A			

ITEM 114 PAGE 24 CLASSIFICATION: **UNCLASSIFIED**

UNCLASSIFIED

	BUDGE	T ITEM	JUSTIFICA	TION SHE	ET		DATE:				
			P-40						June	2001	
APPROPRIATION/BUDG	GET ACTIVI	TY			P-1 ITEM NO	MENCLATURE					
OTHER PROCURE	MENT, NA	AVY			Surface To	mahawk Sı	upport Equ	ipment (J45	A)		
BA4/Ordnance Sup	port Equ	ipment				(PEO	(W))(BLI: 5	25000)			
Program Element for Co	de B Items:				Other Related	l Program Elen	nents				
Not	Applicable	le			0204229N	l					
	Prior Years	ID Code	FY 2000	FY 2001	FY 2002						
QUANTITY		Α									
COST (In Millions)	1307.0		79.7	69.3	61.2						

Advanced Tomahawk Weapons Control System (ATWCS) (06000) procures Tomahawk Weapon Systems (TWS) hardware and software upgrades resulting from RDT&E initiated improvements, operational requirements, Desert Storm lessons learned, fleet systems reviews, and Land Base Test Site (LBTS) testing. This element funds the procurement of ATWCS which provides state-of-the-art open system architecture, greater graphical display, improved interface, increased mission storage capacity, improved flexibility and responsiven

Tactical Tomahawk Weapons Control System (TTWCS) (06001) procures, installs and provides software support and integration of TTWCS, the first in a series of phased replacements of the COTS/GOTS based Weapons Control System (WCS) for the TWS. The primary objective of the TTWCS is the upgrade of the ATWCS hardware as part of the Tactical Tomahawk Program (TTP), including the enhanced performance and efficient execution of new capabilities while maintaining compatability with existing weapon systems. The TTWCS contract is a turn key procurement that includes cost of installation.

Weapon Control System Product Support (06002) provides for the COTS/GOTS refreshment, engineering changes, software support, testing and infrastructure to maintain compatability and interoperability with existing and future systems.

Installation of Equipment (07000)funds all Fleet Modernization Program (FMP) installation costs associated with ATWCS.

Theater Mission Planning Center (TMPC) Product Improvements (08000) procures required software improvements. Tomahawk mission planning is highly dependent on mapping, charting and geodesy products from National Imagery and Mapping Agency (NIMA) and imagery from national systems. Transmitting the missions to Tomahawk capable platforms depends entirely on the Navy communications system which is continually improved and updated on a regular basis, many times annually. This funding allows TMPC to retain compatibility with, and exploit the capabilities of these systems.

The FY 02 program procures ATWCS, TTWCS, TMPC product improvements and associated systems support costs.

P-1 SHOPPING LIST CLASSIFICATION: UNCLASSIFIED

DD Form 2454, JUN 86 ITEM NO. 115 PAGE NO. 1

UNCLASSIFIED

WEAPONS SYSTEM COST ANALYSIS					DATE:																												
P-5				June 2001																													
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA4/Ordnance Support Equipment				P-1 ITEM NOMENCLATURE/SUBHEAD Surface Tomahawk Support Equipment (J45A) (PEO (W) (BLI:525000)																													
																				TOTAL COST	IN THOUSAN	HOUSANDS OF DOLLARS											
																	COST	ELEMENT OF COST	ID Code	Prior	FY2000			FY2001			FY 2002			FY 2003			
CODE		Years																															
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost																		
03000	Afloat Planning System		324,243			0			0			0																					
05000	Product Support		161,702			0			0			0																					
06000	Advanced Tomahawk Weapons Control System (ATWCS)		560,892			27,290			22,010			12,355																					
06001	Tactical Tomahawk Weapons Control System(TTWCS)*		0			0	3	1,633	4,900	4	1,633	6,530																					
06002	WCS Product Support		o	ı		6,284			5,463			7,351																					
07000	Installation of Equipment (Non-FMP)		25,762	2		0			0			0																					
07001	Installation of Equipment (FMP)		25,725	i		9,969			11,457			10,572																					
08000	Theater Mission Planning Center(TMPC) Product Improvements		208,610			36,184			25,508			24,433																					
1 306 934						79 727			69 338			61 241																					

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION: UNCLASSIFIED ITEM NO. 115 PAGE NO. 2

* FY 2003-2005 TTWCS unit cost fluctuations are due to the mix of configurations. TWCS to TTWCS conversions are double the cost of ATWCS to TTWCS conversions.

UNCLASSIFIED CLASSIFICATION:

BUDGET PROCUREM	ENT HIST	ORY AND	PLANNING EXHIBI	T (P-5A)		Weapon System		A. DATE		
									June 2001	
B. APPROPRIATION/BUDGET					C. P-1 ITEM NOM				SUBHEAD	
Other Procurement, N						nahawk Support Equipr	nent		J45A	
BA4/Ordnance Suppo	rt Equipm	ent			PEO (W) BLI	525000				
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
TTWCS 06001/FY 2001	3	1,633	NAVAIR, PAX RIVER	DEC 00	C/FPI	LOCKHEED MARTIN VALLEY FORGE, PA	MAY 01	MAR 03	YES	
TTWCS 06001/FY 2002	4	1,633	NAVAIR, PAX RIVER	DEC 00	C/FPI	LOCKHEED MARTIN VALLEY FORGE, PA	DEC 01	JUN 03	YES	
D. REMARKS	<u> </u>									

DD Form 2446-1, JUL 87

UNCLASSIFIED P-1 SHOPPING LIST Classification: ITEM NO. 115

PAGE NO. 3

CLASSIFICATION: CLASSIFICATION:	UNCLA	SSIFI	ED																		
РЗА		INDIVID	UAL N	ODIFIC	CATIO	N													Date: Jur	ne 2001	
MODELS OF SYSTEM AFFECTED:	CG/DD/D	DG				=	TYPI	E MODIF	FICAT	ION:	RELIAE	BILITY				MODIFICAT	TION TITLE:			OMAHAWK NTROL SYS	TEM
DESCRIPTION/JUSTIFICATION:																					
	001515																				
DEVELOPMENT STATUS/MAJOR DEVEL	OPMENT	MILESTC	NES:				IN PI	RODUC	IION												
	FY 1998 QTY	& Prior \$	<u>FY</u> QTY	1999 \$	<u>FY</u> QTY	<u>2000</u>		<u>/ 2001</u> \$	<u>FY</u> QTY	<u>Y 2002</u> * \$	FY 2 QTY		FY 2004 QTY \$	<u>FY</u> QTY	<u>2005</u>	FY 2006 QTY \$	FY 2007 QTY \$	QTY	<u>TC</u> ′ \$	TO ⁻ QTY	<u>ΓΑL</u> \$
FINANCIAL PLAN (IN MILLIONS)																					
RDT&E																					
PROCUREMENT																					
INSTALLATION KITS	59	127.7	23	25.3	14	21.5	13	16.2												109	190.7
INSTALLATION KITS - UNIT COST		2.2		1.1		1.5		1.2													
INSTALLATION KITS NONRECURRING																					
EQUIPMENT																					
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER(ENGINEERING SUPPORT)		31.1		6.1		5.8		5.8		5.6											54.4
OTHER(FINAL SOFTWARE BUILD)										6.8											6.8
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST	30	10.4	13	8.2	22	10.0	23	11.5	21	10.6										109	50.7
TOTAL PROCUREMENT	59	169.2	23	39.6	14	37.3	13	33.5	0	23.0										109	302.6

ITEM NO. 115 PAGE 4
* FY 1999 funds were used to install six ATWCS kits on ships which were previously installed at land based test labs.

CLASSIFICATION: UNCLASSIFIED P3A (Continued) INDIVIDUAL MODIFICATION (Continued) Date: June 2001 MODELS OF SYSTEMS AFFECTED: CG/DD/DDG MODIFICATION TITLE: ADVANCED TOMAHAWK WEAPON CONTROL SYSTEM (ATWCS) INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION FMP/ALTERATION INSTALLATION TEAM ADMINISTRATIVE LEADTIME: PRODUCTION LEADTIME: 6 Months 12 Months FY 2002: CONTRACT DATES: FY 2000: FY 2001: N/A Mar-00 Mar-01 DELIVERY DATE: FY 2000: MULTIPLE FY 2001: MULTIPLE FY 2002: N/A (\$ in Millions) FY 2000 FY 2001 FY 2004 Cost: Prior Years FY 1999 FY 2002 FY 2003 FY 2005 FY 2006 FY 2007 To Complete Qty Qty \$ Qty Qty Qty Qty Qty \$ Qty Qty \$ Qty \$ \$ \$ \$ \$ \$ \$ \$ PRIOR YEARS 10.4 13 8.2 22 10.0 65 28.6 FY 1999 EQUIPMENT 23 11.5 23 11.5 FY 2000 EQUIPMENT 14 7.1 14 7.1 FY 2001 EQUIPMENT 3.5 6.6 FY 2002 EQUIPMENT FY 2003 EQUIPMENT FY 2004 EQUIPMENT FY 2005 EQUIPMENT FY 2006 EQUIPMENT FY 2007 EQUIPMENT TO COMPLETE 109 INSTALLATION SCHEDULE: FY2000 FY 2001 FY 2002 FY 2005 FY 2007 FY 2003 FY 2004 FY 2006 TC &PRIOR 1 2 3 2 4 2 3 2 3 2 3 4 **TOTAL** 3 4 3 3 4 2 82 3 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 109 0 0 0 0 0 0 65 5 6 4 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 * FY 1999 funds were used to install six ATWCS kits on ships which were previously installed at land based test labs.

CLASSIFICATION: UNCLASSIFIED

P-3A

FY 2000/01 BUDGET PRODU	JCTION :	SCHE		, P-2 1	l								Wea	apon	Sys	tem		DATE	ITEI	M N	OM			2001				<u> </u>		
OTHER PROCUREMENT														дроп.				T	TWC	S	OIVIL	LING	,LA 1	OIXI						
							Pro	duct	ion F	Rate									adtir											
			ufacti										T P			T A			Initia			eord							nit of	
Item				.ocatio		M	SR	EC	ON	M	٩X	to	Oct	t 1	(Oct '	1	M	fg Pl		M	fg P	LT		Tota	<u>al</u>			asure	9
TTWCS FY 01				N, VF, F		5	/yr			20						8			22						30			CH		
TTWCS FY 02	LOCK	HEED N	MARTIN	N, VF, F	PA	5	/yr			20						3			18						21		ΕA	<u>CH</u>		
																											┿			
																										—	+			
																										—	+			
	İ								FI	SCAL	YEAF	R 200	1		•							FIS	CAL Y	/EAR	2002					Г
ITEM / MANUFACTURER	F	S	Q	D	В		2000						CALE	NDAR	YEAR	200	1					,	CA	LEND	DAR YE	EAR 2	2002			
	Y	V C	T Y	E L	A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	E	A L
TTWCS	01		3	0	3	Ė	v		-	D	10	- 1	A	11	_	Ü	<u> </u>	<u> </u>		U	-		1	- 1	÷	 ``	⊢	+	$+\dot{-}$	3
TTWCS	02		4	0	4															Α								\perp		4
																									-	-		-	-	<u> </u>
																										<u> </u>				
																							-			\vdash	-	+	_	-
										FIS	CAL Y	EAR	2003									FIS	CAL Y	/EAR	2004					Г
ITEM / MANUFACTURER	F	S	Q	D	В		2002					(CALE	NDAR	YEAR	2003	3						CA	LEND	DAR YE	EAR 2	2004			
	Y	V C	Y	E L	A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J U L	A U G	E	A L
TTWCS	01		3	0	3						1	1	1													┢				C
TTWCS	02		4	0	4									1	1	1	1								<u> </u>	-	-	+-		C
																									-	\vdash	 	+-	_	
																														İ
																									ـــــ	-	₽	-		
																							-	1	-	-	\vdash	+	-	-
																												\bot		L
Remarks: FY 2001 and 2	2002 are	LRIP	procu	ıremer	nts.																									

DD Form 2445, JUL 87

Previous editions are obsolete

P-1 SHOPPING LIST

PAGE NO. 5

UNCLASSIFIED

Exhibit P-21 Production Schedule

		BUDG	SET ITEM JU	JSTIFICATI	ON SHEET				DATE:			
				P-40						June 2001		
APPROPRIATION/BL							P-1 ITEM NO					
OTHER PROCUE	REMENT, NAV	ľΥ					Submarine	e Tomaha	wk Support	Equipment	(J45B)	
BA4/Ordnance S	Support Equip	ment							(PEO(W))	(BLI: 525500)	
Program Element for	Code B Items:						Other Related	d Program E	lements			
N/A						1	NONE					
	Prior Years	ID Code	FY 2000	FY 2001	FY 2002							
QUANTITY		А					ecture, extensive hardware (TAC-X) processors, Common Display Console Uses submarines is a prerequisite for installation on the VIRGINIA class submarated with Submarine ATWCS and accommodates the Tactical TOMAHAWK					
COST (In Millions)	\$118.3		\$3.5	\$2.8	\$3.1							
hardware for submar Planning; Interface v	rines will support vith the Combat C	the following control Systen	functions: Rec n to transfer en	eipt of Over th gagement plar	e Horizon (OTH) ns, TOMAHAWK) tracking dat Mission data	a external to TT	TWCS; Enga				

DD Form 2454, JUN 86 P-1 SHOPPING LIST ITEM NO. 116 PAGE NO. 1 CLASSIFICATION: UNCLASSIFIED

	WEAPONS SYSTEM COST AN P-5	IALYSIS					Weapon Sys	stem						DATE:	e 2001
Other I	PRIATION/BUDGET ACTIVITY Procurement, Navy rdnance Support Equipment						ID Code	Submari	NOMENCLAT ne Tomah)(BLI: 525	awk Supp		pment (J4	5B)		
			TOTAL COS	T IN THOU	SANDS OF	DOLLARS	L	10 ()	<u>//</u>						
COST	ELEMENT OF COST	ID Code	Prior Years	Overtite	FY 2000 Unit Cost	Total Cost	Overtite	FY 2001	Tetal Cont		FY 2002 Unit Cost	T-t-LC-st	Overtit	FY 2003 Unit Cost	Tatal Cast
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
02000	Submarine-ATWCS Production Engineering		118,257	3	692	2,075 1,389	3	727	2,180						
02001	Submarine-TTWCS						1	500	500	4	475	1,900			
02002	WCS Product Support								153			1,162			
			118,257			3,464			2,833			3,062			

DD FORM 2446, JUN 86 P-1 SHOPPING LIST ITEM NO. 116 PAGE NO. 2 CLASSIFICATION: UNCLASSIFIED

UNCLASSIFIED

		В	SUDGET ITE	M JUSTIFIC	ATION SHEET	Ī			DATE:			
				P-40						JUNE	E 2001	
APPROPRIATION/BU	DGET ACTIVI	TY				F	2-1 ITEM NO	MENCLATURE				
OTHER PROCUR	EMENT, NA	VY/BA-	4 Ordnance	Support Eq	uipment	\	/ERTICAL	LAUNCH SY	STEM - 5260	000		
Program Element for C	Code B Items:					C	Other Related	Program Eleme	nts			
						r	N/A					
	Prior	ID										
	Years	Code	FY 2000	FY 2001	FY 2002							
QUANTITY			N/A	N/A	N/A							
COST												
(In Millions)	\$10.3	Α	\$5.3	\$6.9	\$6.9							
SPARES COST												
(In Millions)												

SUBMARINES

The SSN-688 Class Vertical Launch System (VLS) is a weapons system which provides the SSN-688 Class submarines with the capability to carry, status, preset, and launch up to twelve TOMAHAWK cruise missiles from vertical tubes located in the forward non-pressure hull area. This weapons system is being added to all SSN-688 Class submarines starting with SSN-719 in FY 86 with out degra any existing SSN-688 Class weapons system capabilities or submarine operational characteristics. The VLS launches TOMAHAWK conventional land attack cruise missiles. The TOMAHAWK cruise missile was modified to allow operation in a vertical orientation. VLS was procured and installed under the SCN appropriation. VLS support, test, and handling equipment are provided by this OPN P-1 line item.

The AUR Simulator is a test and training device that is loaded into a missile tube to simulate an operational Encapsulated TOMAHAWK Vertical All Up Round (AUR) allowing the VLS to be exercised through the launch phase without actually launching a missile. The AUR Simulator consists of an AUR Electronic Simulator enclosed in a Volumetric Shape. The AUR Electronic Simulator (AURES) simulates the AUR operations either while installed in the Volumetric Shape or in the stand-alone mode via electrical umbilical connection. The Volumetric Shape simulates the weight and shape of an operational AUR, provides a watertight, pressure-proof enclosure for the AURES, and interfaces with the missile tube in a manner similar to an operational AUR so that no damage to the tube will occur during simulation. The missile tube bore gauge is used to verify the proper missile tube clear bore to ensure compatibility with the TOMAHAWK AUR. The AUR loader is a funnel-shaped device which mounts to the missile tube muzzle face. It acts as a guide for the AUR and provides the mechanism to push the AUR down during loading and pull the AUR out of the missile tube during unloading. The Missile Tube Control Panel (MTCP) (SSN 719-725, 750) and the Tube Control Panel (TCP) (SSN 751-773) display...he status of the missile tubes, controls the operation of the missile tube hatches, and displays the status of various subsystems.

P-1 SHOPPING LIST

ITEM NO. 117 PAGE NO. 1

CLASSIFICATION:

UNCLASSIFIED

UNCLASSIFIED

		В	UDGET ITE	M JUSTIFICA	ATION SHEE	T			DATE:			
				P-40						JUNE	2001	
APPROPRIATION/BUDG	GET ACTIVIT	ΓΥ					P-1 ITEM NOM	MENCLATURE				
OTHER PROCURE	MENT, NA	VY BA-	4				VERTICAL L	AUNCH SYS	TEM BLI# 52	60		
Program Element for Co	de B Items:						Other Related	Program Eleme	nts			
	Prior	ID										
	Years	Code	FY 2000	FY 2001	FY 2002							
QUANTITY			N/A	N/A	N/A							
COST												
(In Millions)	\$10.3	Α	\$5.3	\$6.9	\$6.9							
SPARES COST												
(In Millions)												

SURFACE

The OPN requirements are to procure ORDALT kits and government field activity support for ORDALT installation planning, provide sustaining engineering support to VLS ships in the fleet, and procure test equipment/special tool replacement in support of ship ROH/SRA testing. The VLS MK-41 program has requirements to procure ORDALTs required for SM-2 BLK IVA and SM-3 for DDG-51 and CG-47 classes in support of Navy Theater Ballistic Missile Defense (TBMD) program. Conduct engineering investigations of 4 to 6 inadvertent deluges and 2 to 3 missile duds per year in order to minimize future material damage. Collect, investigate, and prioritize computer program trouble reports. Investigate discrepancies in, update, and correct shipboard Allowance Equipment Lists (AELs), Consolidated Onboard Ship Allowance Lists (COSALs), and configuration lists. Provide ORDALT production engineering support.

* 3 SPRUANCE (DD-963) Class Ships are being decommissioned in FY01 bringing the total to 21 DD-963s.

P-1 SHOPPING LIST

CLASSIFICATION:

DD Form 2454, JUN 86 ITEM NO. 117 PAGE NO. 2

UNCLASSIFIED

WEAPONS SYSTEM COST ANALYSIS Weapon System DATE: **JUNE 2001** P-5 APPROPRIATION/BUDGET ACTIVITY ID Code P-1 ITEM NOMENCLATURE/SUBHEAD Other Procurement, Navy **BA-4 Ordnance Support Equipment** Vertical Launch Systems BLI: 526000/05 SBHD: 845A TOTAL COST IN THOUSANDS OF DOLLARS ID COST ELEMENT OF COST Prior FY 2000 FY 2001 FY 2002 CODE Code Years Total Cost Quantity Unit Cost Total Cost Quantity Unit Cost Total Cost Quantity Unit Cost Total Cost Quantity Unit Cost Total Cost SUBMARINES N-87 AUR ELECTRONIC SIMULATOR 5A101 Α 2,277 Shape/skid Assembly 9 253 Internal Load Bank Thermal Protection 21 21 23 23 Improved AURVS Cable Improved AURVS Junction Box Improved Ballast Can Covers Improved Ballast Can Pads Improved Platform Tent 5A102 AUR ELECTRONIC SIMULATOR Α (AURES) MK-101 MK 101 Tactical Tomahawk Kit Mod 4 2 230 460 3 135 405 25 16 400 Training Guide 35 35 70 Interactive Courseware 70 Mod 53 Acceptance Tester LOADING SUPPORT EQUIPMENT 5A107 Α Miscellaneous support equipment 354 215 73 Special Test Equipment 5A116 FACILITY HARDWARE 17 Α 195 109 SUBTOTAL (SUBMARINES N-87) 0 1,135 752 2,767

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

ITEM NO. 117 PAGE NO. 3

UNCLASSIFIED

	WEAPONS SYSTEM COST ANAL	YSIS				Weapon Sy	rstem							DATE:	
Other F	P-5 RIATION/BUDGET ACTIVITY Procurement, Navy rdnance Support Equipment					ID Code			JRE/SUBHEAL		5 SBHD: 8	45A		JUNE	2001
			TOTAL COS	T IN THOUS	SANDS OF DO	DLLARS	100.0.00.			0_000070	0 022.0				
COST CODE	ELEMENT OF COST	ID Code	Prior Years		FY 2000			FY 2001			FY 2002				
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
5A118	SHIPALT MATERIAL														
	TCP Maintenance Module			6	77.0	462				4	85	340			
	TCP Follow-on Upgrade						1	1,161	1,161	2	200	400			
	Test Pressure Station Adaptors			30	4.0	120									
	Fairing Linkage Upgrade			1	668	668				1	315	315			
	Hydraulics Block Upgrade									1	540	540			
5A6IN	NON-FMP INSTALLATIONS					168			284						
5AINS	FMP INSTALLATIONS					440			897			1353			
	SUBTOTAL (SUBMARINES N-87)		0			2,993		DDING LI	3,094			5,715	CI ASSIEI		

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

ITEM NO. 117 PAGE NO. 4

UNCLASSIFIED

	WEAPONS SYSTE	M COST AN	NALYSIS			Weapon Sy	stem							DATE: JUNE	2001
	PRIATION/BUDGET ACTIVITY rocurement, Navy					ID Code		OMENCLATU VERTICAL			SYSTEM/	A45A BLI#	5260		
			TOTAL COS	T IN THOUS	SANDS OF DO	LLARS									
COST CODE	ELEMENT OF COST	ID Code	Prior Years Total Cost	Quantity	FY 2000 Unit Cost	Total Cost	Quantity	FY 2001 Unit Cost	Total Cost	Quantity	FY 2002 Unit Cost	Total Cost	Quantity	Unit Cost	Total Cos
	SURFACE N86			,			,						,		
5A003	VLS ORDALTS		1,647			0			2,438			364			
5A830	PRODUCTION ENGINEERING		1,416			1,485			242			225			
5A870	SPEC TOOLING/TEST EQUIP		0			0			0			0			
5A900	CONSULTING SERVICES		34			26			26			0			
5A5IN	FMP INSTALLATION		824			787			1,117			553			
	SUBTOTAL (SURFACE N86)					2,298			3,823			1,142			
	TOTAL		OPPING LIST			5,291			6,917			6,857			

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AN	D PLANNING	EXHIBIT	(P-5A)			Weapon System		A. DATE	JUNE 200	1
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-4 ORDNANCE SUPPORT EQUIPM	FNT					IENCLATURE LASS VERTICAL LAUN IR ELECTRONIC SIMUL		TEM	SUBHEAD 845A	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY2000 Internal Load Bank Thermal Protection	21	\$1	NUWC		COMPET	COMPETITIVE/NUWC	11/99	4/00	YES	N/A
FY2001 Internal Load Bank Thermal Protection	23	\$1	NUWC		COMPET	COMPETITIVE/NUWC	11/00	4/01	YES	N/A
FY2002 Shape/skid Assembly	9	\$253	NUWC		COMPET	COMPETITIVE/NUWC	11/01	4/02	YES	N/A

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

ITEM NO. 117 PAGE NO. 6 UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT H	ISTORY AND F	PLANNING	EXHIBIT (P-5A)			Weapon System		A. DATE	IIINE 202	4
B. APPROPRIATION/BUDGET ACTIVIT	v				C. P-1 ITEM NO	MENCI ATURE			JUNE 200	1
Other Procurement, Navy B						LASS VERTICAL LAUN	ICH 6V6	STEM	SUBHEAD	
ORDNANCE SUPPORT		т				JRES MK101	1011010	J 1 L 141	845A	
ONDIVARIOL SOLLONI	LQOII WILIA	•			CONTRACT	JKLS WIKTOT		DATE OF	SPECS	DATE
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	FIRST DELIVERY	AVAILABLE NOW	REVISIONS AVAILABLE
FY2000										
Tactical Tomahawk Kit	2	\$230	NUWC		COMPET	COMPETITIVE/NUWC	11/99	4/00	YES	N/A
Training Guide	1	\$35	NUWC		COMPET	COMPETITIVE/NUWC	11/99	4/00	YES	N/A
Interactive Courseware	'1	\$70	NUWC		COMPET	COMPETITIVE/NUWC	11/99	4/00	YES	N/A
interactive Courseware	'	ΨΙΟ	NOVIC		COMILI	COMI ETITIVE/NOVVC	11/33	4/00	123	IN/A
FY2001										
Tactical Tomahawk Kit	3	\$150	NUWC		COMPET	COMPETITIVE/NUWC	11/00	4/01	YES	N/A
FY2002										
Tactical Tomahawk Kit	25	\$16	NUWC		COMPET	COMPETITIVE/NUWC	11/01	4/02	YES	N/A
	<u> </u>			ı	ı	L	L	ı	L	·

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

ITEM NO. 117 PAGE NO. 7 UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT H	IISTORY A	AND PLAN	NING EXHIBIT (P-5	SA)		Weapon System		A. DATE	JUNE 2001	
B. APPROPRIATION/BUDGET ACTIVIT	v				C. P-1 ITEM NON	MENCI ATUDE			SUBHEAD	
Other Procurement, Navy B						LASS VERTICAL LAUN	CH SAS	TEM	SUBHEAD	
ORDNANCE SUPPORT		/ENT				IIPALT MATERIAL	011 0 1 0	. –	845A	
ORDINANCE SUFFORT	LQUIFI	/ILIVI			CONTRACT	IIPALI WATERIAL		DATE OF	SPECS	DATE
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	FIRST DELIVERY	AVAILABLE NOW	REVISIONS AVAILABLE
FY2000										
TCP Maint Module	6	\$77	NUWC		COMPET	COMPETITIVE/NUWC	11/99	4/00	YES	N/A
Test Pressure Station Adapto	30	\$4	LCE		COMPET	COMPETITIVE/LCE	11/99	4/00	YES	N/A
Fairing Linkage Upgrade	1	\$668	NUWC		COMPET	COMPETITIVE/NUWC	11/99	4/00	YES	N/A
FY2001										
TCP Follow-on Upgrade	1	\$1,191	NUWC		COMPET	COMPETITIVE/NUWC	11/00	4/01	YES	N/A
FY2002										
TCP Maint Module	4	\$85	NUWC		COMPET	COMPETITIVE/NUWC	11/01	4/02	YES	N/A
TCP Follow-on Upgrade	2	\$200	NUWC		COMPET	COMPETITIVE/NUWC	11/01	4/02	YES	N/A
Fairing Linkage Upgrade	1	\$315	NUWC		COMPET	COMPETITIVE/NUWC	11/01	4/02	YES	N/A
Hydraulics Block Upgrade	1	\$540	NUWC		COMPET	COMPETITIVE/NUWC	11/01	4/02	YES	N/A

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

ITEM NO. 117 PAGE NO. 8 UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED																						
P3A		INDIVIDU	AL MO	DIFICATI	ON																	
MODELS OF SYSTEM AFFECTED:	SSN	751-773 PLUS TW			TYP	E MODIF	ICATI	ON:				_			MOD	IFICATIO	N TIT	LE:	TCP U	JPGRADE S	SHIPALT S	SN 3939
DESCRIPTION/JUSTIFICATION:		PLUS TW	O SHO	RESITES	5																	
THIS MOD FIXED THE FOLLOWING DEF															ACC	ESS TO A	IR FI	LTERS;	INABILI	ITY TO KE	EP AUR INT	ERNAL
DIFFERENTIAL PRESSURE WITHIN SPE	CIFIE	D RANGE	: DISPI	LAY OF D	IFERI	NTIAL PR	ESSU	RE ONLY	' WHE	N SYSTE	EM IS	IN "OPEF	RATE'	" MODE								
DEVELOPMENT STATUS/MAJOR DEVEL	OPME	NT MILES	TONES	5:																		
	Prior QTY		FY 2 QTY	000		2001 ′\$	FY 2 QTY															
FINANCIAL PLAN (IN MILLIONS)		,				,																
RDT&E																						
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT	25	6.49																				
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST		2.55		0.14		0.22																
TOTAL PROCUREMENT		9.05		0.14		0.22																

CLASSIFICATION:	UNCLAS	SIFIED																			
P3A (Continued)				INDIVIDU	AL M	ODIFICATIO	N (Co	ntinued													
MODELS OF SYSTE	MS AFF	ECTED:	SSN 75		O SH	MOD ORESITES	IFICA	TION TITLE:		TCP	UPG	RADE SHIP	PALT	SSN 3939							
INSTALLATION INFO	MENTA	ΓΙΟΝ:	AIT	1200 111	_	011201120															
ADMINISTRATIVE L CONTRACT DATES DELIVERY DATE:	: FY	E: <u>8</u> 2000: 2000:	Month	is		PRODUCT FY 2001: FY 2001:	ION L	EADTIME:		12	Moi	FY 2 FY 2					_				
			-	-					(:	\$ in Millions)						_				
Cost:	F	Prior Years	F١	Y 2000		FY 2001		FY 2002						FY 2003							
	Qty	\$	Qty	\$	Qty	\$	Qty	\$		1				ı	1	Qty		1		ı	
PRIOR YEARS	2:	2 2.55	1	0.14	1 2	0.22															
FY 2000 EQUIPME	NT																				
FY 2001 EQUIPME	NT																				
FY 2002 EQUIPME	NT																				
FY 2003 EQUIPME	NT																				
FY 2004 EQUIPME	NT																				
FY 2005 EQUIPME	NT																				
FY 2006 EQUIPME	NT																				
FY 2007 EQUIPME	NT																				
TO COMPLETE																					
INSTALLATION S	CHEDUI	.E:					_,														
FY 200	00	FY 200	<u>)1</u>		FY	2002															
& Pri	or	1 2	3	4 1	2	3 4															
In 23		1 1	0	0 0	0	0 0															
Out 23		0 1	1	0 0	0	0 0															
																		P-3/	١		

CLASSIFICATION: UNCLASSIFIED P3A		INDIVIDU	AL MO	DIFICAT	ION																	
MODELS OF SYSTEM AFFECTED: DESCRIPTION/JUSTIFICATION:	4 Shi					E MODIFIG	CATIO	N:		K SHIP	ALT	-			MOE	DIFICATIO			OUTB	ALL HULL A OARD OF I HIPALT SS	MISSILE	
This alteration eliminates the need for hull 31 VLS ships and required material (steel the composite material (the steel cut was not be	was rei nodifie	moved and d into a rer	d was to movable	be repla e plate).	aced w	ith a comp	osite-r	naterial p	late. I	However	it was	later dete	rmine	ed that all	but fiv	ve ships h	nodific	cations. T	he alte	ration was	originally bu	dgeted for
DEVELOPMENT STATUS/MAJOR DEVELO	OPMEI	NT MILES	TONES	:								-										
	Prior QTY	Yrs \$	FY 2 QTY		FY 2 QTY		FY 2 QTY															
FINANCIAL PLAN (IN MILLIONS)		•		·																		
RDT&E																						
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT																						
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST				0.08				0.05														

0.05

0.08

TOTAL PROCUREMENT

CLASSIFICA		CLAS	SIFIED																				
P3A (Continu	ıed)				INDIVIDU	JAL N	ODIFIC	CATIO	N (Coi	ntinued													
MODELS OF	SYSTEMS	AFF	ECTED:	4 Ship	s 50, 751, 1	756.B	763	_MOI	DIFICA	ATION TITLE:				IULL ACCE					SILE		_		
INSTALLATION					00, 101,	. 00,2	. 00								,		00.1 (0/.	,					
METHOD OF				AIT																			
ADMINISTRA				Month	S				TION L	EADTIME:		5 Month	s		_								
CONTRACT DELIVERY D	_		2000: 2000:					2001: 2001:							2002: 2002:				_				
DELIVERT	AIE.	ГТ	2000.				ГІ	2001.						ГТ.	2002.				_				
											(9	in Millions)											
Cos	st:	Pric	or Years	F`	Y 2000		FY 20	01		FY 2002		•			F	Y 2003							
		Qty	\$	Qty	\$	Q	ty	\$	Qty	\$					1			Qty		1		1	ı
PRIOR YEA	ARS			2	0.0	8																	
FY 2000 EC	QUIPMENT								1	0.05													
FY 2001 EC	QUIPMENT																						
FY 2002 EC	QUIPMENT																						
FY 2003 EC	QUIPMENT																						
FY 2004 EC	QUIPMENT																						
FY 2005 EC	QUIPMENT																						
FY 2006 EC	QUIPMENT																						
FY 2007 EC	QUIPMENT																						
TO COMPL	ETE.																						
INSTALLA	ATION SCH	EDUL	.E:																				
	FY 2000		FY 2	001		F۱	Y 2002																
	& Prior		1 2		4 1		2 3	4															
In	2		0 0		0 1		0 0	0	7														
Out	2		0 0	0	0 0		1 0	0															
									_														
																				р о	^		

CLASSIFICATION: UNCLASSIFIED INDIVIDUAL MODIFICATION MODELS OF SYSTEM AFFECTED: TYPE MODIFICATION: FIELD CHANGE MODIFICATION TITLE: MISSLE TUBE CONTROL PANEL SSN 719-725, 750 DRAIN INHIBIT FIX (5A118) DESCRIPTION/JUSTIFICATION: THIS MOD ALLOWS OPERATION OF THE OTHER TUBES IN A BANK WHEN A TUBE'S DIFFERENTIAL PRESSURE TRANSDUCER PRESSURE SWITCH FAILS. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FY 2000 FY 2001 FY 2002 Prior Yrs QTY \$ QTY \$ QTY \$ QTY \$ FINANCIAL PLAN (IN MILLIONS) RDT&E **PROCUREMENT INSTALLATION KITS** INSTALLATION KITS - UNIT COST INSTALLATION KITS NONRECURRING EQUIPMENT 0.12 **EQUIPMENT NONRECURRING ENGINEERING CHANGE ORDERS** DATA TRAINING EQUIPMENT SUPPORT EQUIPMENT OTHER OTHER OTHER INTERIM CONTRACTOR SUPPORT INSTALL COST 0.17 0.06 TOTAL PROCUREMENT 0.12 0.17 0.06

CLASSIFICATION: UNC	CLAS	SIFIED																			
P3A (Continued)				INDIVIDUA	AL M	ODIFICATIO	N (Co	ntinued													
MODELS OF SYSTEMS	AFF	ECTED:	SSN 7	19-725, 75	0	MOD	IFICA	TION TITLE:		MISSL	E TI	JBE CONT	ROL	PANEL DR	AIN INF	HIBIT FIX (5	5A118	3)	_		
INSTALLATION INFORM METHOD OF IMPLEME ADMINISTRATIVE LEAI CONTRACT DATES: DELIVERY DATE:	NTAT OTIMI FY	TON:	AIT Month	s	-	PRODUCT FY 2001: FY 2001:	ION L	EADTIME:			<u>Mon</u>	ths FY 2 FY 2					- -				
Cost:	Dri	or Years		Y 2000		FY 2001	ı	FY 2002	ı	(\$ in Millions))			FY 2003					1		
Cost.	Qty	\$	Qty	\$	Qty		Qty	\$						F 1 2003		Qty					
PRIOR YEARS	,	•	6				į	*													
FY 2000 EQUIPMENT																					
FY 2001 EQUIPMENT																					
FY 2002 EQUIPMENT																					
FY 2003 EQUIPMENT																					
FY 2004 EQUIPMENT																					
FY 2005 EQUIPMENT																					
FY 2006 EQUIPMENT																					
FY 2007 EQUIPMENT																					
TO COMPLETE																					
INSTALLATION SCH FY 2000 & Prior In 6 Out 6	EDUL	E: FY 2 1 2 2 0 0 1		4 1 0 0 0 0	0	2002 3 4 0 0 0 0															

ITEM 117 PAGE 14

CLASSIFICATION: UNCLASSIFIED																				
РЗА		INDIVIDU	AL MO	DIFICAT	TION															
MODELS OF SYSTEM AFFECTED:	SSN	751 - 773			TYP	E MODI	FICAT	ION:	FIELD C	CHAN	GE		MOD	IFICATION	ON TI	ITLE:	TCP 5	VDC POW	ER SUPPL	Y
DESCRIPTION/JUSTIFICATION:											_						(5A11	8)		
MOD FIXED A GROUNDING PROBLEM (ON EB	DIV - BUII	_T SHIF	PS SSN	751 A	ND LAT	ER													
DEVELOPMENT OTATIONAL IOR DEVELO	00145	NT MU EO	TONE																	
DEVELOPMENT STATUS/MAJOR DEVELO	JPME	NI MILES	IONES	i :							-									
		r Yrs	FY 2			2001	FY 2													
	QIY	* <u>\$</u>	QIY	\$	QIY	\$	QIY	<u> </u>												
FINANCIAL PLAN (IN MILLIONS)																				
<u>RDT&E</u>																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT	1	0.06																		
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST				0.03								_								
TOTAL PROCLIPEMENT		0.06		0.03																

CLASSIFICATION: UNC	LAS	SIFIED																		
P3A (Continued)				INDIVIDU	AL M	ODIFICATIO	ON (Co	ontinued												
MODELS OF SYSTEMS	AFF	ECTED:	SSN 7	51 - 773		MOI	DIFIC	ATION TITLE	£:	TCP	5VDC	POWER S	UPP	LY	 					
INSTALLATION INFORM METHOD OF IMPLEMEI ADMINISTRATIVE LEAD CONTRACT DATES: DELIVERY DATE:	NTAT OTIME FY	TION:	AIT Months	5	-	PRODUCT FY 2001: FY 2001:	TION L	LEADTIME:		4	Mon	nths FY 20 FY 20				-				
l										(\$ in Million	ns)									
Cost:	Pric	or Years	FY	2000	T	FY 2001	I	FY 2002						FY 2003				Ī	1	
	Qty	\$	Qty	\$	Qty		Qty	\$							Qty					
PRIOR YEARS			1	0.03	3															
FY 2000 EQUIPMENT																				
FY 2001 EQUIPMENT																				
FY 2002 EQUIPMENT	1																			
FY 2003 EQUIPMENT																				
FY 2004 EQUIPMENT																				
FY 2005 EQUIPMENT																				
FY 2006 EQUIPMENT																				
FY 2007 EQUIPMENT																				
TO COMPLETE																				
INSTALLATION SCHI FY 2000 & Prior In 1 Out 1	<u>EDUL</u>	E: FY 20 1 2 0 0 0 0	0001 3 0	4 1 0 0 0 0	0	2002 3 4 0 0 0 0														
Out 1		0 0		<u> </u>		_ 0	J										P-3A			

ITEM 117 PAGE 16

CLASSIFICATION: UNCLASSIFIED INDIVIDUAL MODIFICATION MODELS OF SYSTEM AFFECTED: SSN 751-773 TYPE MODIFICATION: KP SHIPALT MODIFICATION TITLE: TCP MAINTENANCE PLUS 2 SHORE SITES MODULE SHIPALT DESCRIPTION/JUSTIFICATION: (5A118) THIS MOD FACILITATES MAINTENANCE OF THE TCP. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Prior Yrs FY 2000 FY 2001 FY 2002 QTY \$ QTY \$ QTY \$ QTY \$ FINANCIAL PLAN (IN MILLIONS) RDT&E **PROCUREMENT INSTALLATION KITS INSTALLATION KITS - UNIT COST** INSTALLATION KITS NONRECURRING **EQUIPMENT** 0.18 0.46 0.34 **EQUIPMENT NONRECURRING ENGINEERING CHANGE ORDERS** DATA TRAINING EQUIPMENT SUPPORT EQUIPMENT OTHER OTHER OTHER INTERIM CONTRACTOR SUPPORT **INSTALL COST** 0.12 0.32 0.32 TOTAL PROCUREMENT 0.18 0.59 0.32 0.66

ITEM 117 PAGE 17

CLASSIFICATION: UNC	CLASS	SIFIED																			
P3A (Continued)				INDIVIDUA	AL MO	ODIFICATIO	N (Co	ntinued													
MODELS OF SYSTEMS	AFFE	CTED:		751-773 2 SHORE SI	TES	MOD	IFICA	TION TITLE:	-	TCP	MAIN ⁻	TENANCE	MOD	ULE SHIPAL	_T (5A11	8)			_		
INSTALLATION INFORM	ИАТІО	N:	1 200 /	Z OI IOINE OI	120																
METHOD OF IMPLEME	NTATI	ON:	AIT																		
ADMINISTRATIVE LEAD			6	Mont	hs	PRODUCTI	ION L	EADTIME:		8	Mor										
CONTRACT DATES:		2000:	4/99			FY 2001:		4/00	_				2002:	<u></u>	4/01		_				
DELIVERY DATE:	FY 2	2000:	2/00	- -		FY 2001:		2/01				FY 2	2002:		2/02		=				
										(\$ in Millio	ons)										
Cost:		r Years		Y 2000		FY 2001		FY 2002						FY 2003							
	Qty	\$	Qty	\$	Qty	\$	Qty	\$			1		1		1	Qty	1	1	1		
PRIOR YEARS			1	0.12	2																
FY 2000 EQUIPMENT					3	0.32	3	0.32													
FY 2001 EQUIPMENT																					
FY 2002 EQUIPMENT																					
FY 2003 EQUIPMENT																					
FY 2004 EQUIPMENT																					
FY 2005 EQUIPMENT																					
FY 2006 EQUIPMENT																					
FY 2007 EQUIPMENT																					
TO COMPLETE																					<u> </u>
INSTALLATION SCH FY 2000 & Prior In 1 Out 1		FY 2	3	4 0 1 2 0													•	P-3.	۸		
						IT	ЕМ	117	PAGE	18						CLAS	SSIFIC			ASSIFIED	

CLASSIFICATION: UNCLASSIFIED INDIVIDUAL MODIFICATION MODELS OF SYSTEM AFFECTED: TYPE MODIFICATION: KP SHIPALT MODIFICATION TITLE: TCP FOLLOW-ON UPGRADE SSN 751-773 PLUS 2 SHORE SITES (5A118) DESCRIPTION/JUSTIFICATION: MOD WILL ACCOMPLISH SOME OR ALL OF THE RECOMMENDATIONS IN A 1992 SSN 688 CLASS PLANNING YARD REPORT THAT WERE NOT ACCOMPLISHED VIA SHIPALT 3939KP, WHICH ACCOMPLISHED 6 OF THE RECOMMENDATIONS. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Prior Yrs FY 2000 FY 2001 FY 2002 QTY \$ QTY \$ QTY \$ QTY \$ FINANCIAL PLAN (IN MILLIONS) RDT&E **PROCUREMENT INSTALLATION KITS INSTALLATION KITS - UNIT COST** INSTALLATION KITS NONRECURRING **EQUIPMENT** 2 1.19 0.40 **EQUIPMENT NONRECURRING ENGINEERING CHANGE ORDERS** DATA TRAINING EQUIPMENT SUPPORT EQUIPMENT OTHER OTHER OTHER INTERIM CONTRACTOR SUPPORT INSTALL COST 0.00 0.30 TOTAL PROCUREMENT 1.19 0.70

CLASSIFICATION: UNC	CLAS	SIFIED																	
P3A (Continued)				INDIVIDU	JAL N	ODIFICATION	ON (C	ontinued											
MODELS OF SYSTEMS	AFFI	ECTED:		751-773 2 SHORE S	SITES		DIFICA	TION TITLE	:: <u> </u>	TCP I	OLL	OW-ON UP	GRAI	DE (5A118)					
INSTALLATION INFORM																			
METHOD OF IMPLEME			AIT		_	DD 0 DU 07		E A D.T.IA 4E		40									
ADMINISTRATIVE LEAD CONTRACT DATES:		<u>: 8</u> 2000:		Months	_	FY 2001:	ION L	EADTIME:	_	12	Mor	rtns FY 20	າດວຸ						
DELIVERY DATE:		2000:				FY 2001:						FY 20				-			
														-		_			
Cost:	Dric	or Years	FV	′ 2000	$\overline{}$	FY 2001	1 6	Y 2002		(\$ in Mil	ions)			FY 2003				1	
0031.	Qty	\$	Qty	\$	Qty		Qty	\$						1 1 2003	Qty				
		·			1			·											
PRIOR YEARS																			
FY 2000 EQUIPMENT																			
FY 2001 EQUIPMENT							1	0.30											
FY 2002 EQUIPMENT																			
FY 2003 EQUIPMENT																			
FY 2004 EQUIPMENT																			
FY 2005 EQUIPMENT																			
FY 2006 EQUIPMENT																			
FY 2007 EQUIPMENT																			
TO COMPLETE																			
INSTALLATION SCH	<u>EDUL</u>	.E:					_												
FY 2000		FY 20	001		FY	2002													
& Prior		1 2	3	4 1	2	3 4													
In 0	•	0 0	0	0 1			1												
Out 0		0 0	0	0 0	1	0 0													
							_												
																	P-3A		ŀ

ITEM 117 PAGE 20

CLASSIFICATION: UNCLASSIFIED INDIVIDUAL MODIFICATION MODELS OF SYSTEM AFFECTED: SSN 719-720, 723-725, 750-773 TYPE MODIFICATION: KP SHIPALT MODIFICATION TITLE: Test Pressure Station Adaptors DESCRIPTION/JUSTIFICATION: This alteration adds adaptors to existing hydraulic test pressure stations to facilitate Performance Monitoring Team (PMT) testing. During new construction several of the stations were installed such that testing is difficult or impossible. SSN 721 and 722 did not have stations installed during new construction, so testing on these ships is handled in a different manner. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Prior Yrs FY 2000 FY 2001 FY 2002 QTY \$ QTY \$ QTY \$ QTY \$ FINANCIAL PLAN (IN MILLIONS) RDT&E **PROCUREMENT INSTALLATION KITS INSTALLATION KITS - UNIT COST** INSTALLATION KITS NONRECURRING **EQUIPMENT** 30 0.12 **EQUIPMENT NONRECURRING ENGINEERING CHANGE ORDERS** DATA TRAINING EQUIPMENT SUPPORT EQUIPMENT OTHER OTHER OTHER INTERIM CONTRACTOR SUPPORT

0.02

0.02

0.12

0.11

0.11

INSTALL COST

TOTAL PROCUREMENT

CLASSIFICATION: UNC	CLAS	SIFIED																				
P3A (Continued)				INDIVIDU	JAL N	MODIFICATIO	N (Co	ntinued														
MODELS OF SYSTEMS	AFF	ECTED:	SSN 7	19-720, 7	23-72	25, 750- ₇₇₃	MOD	IFICATION T	TITLE:	Test Pr	essu	re Station	Adapt	tors (5A118)							
INSTALLATION INFORM METHOD OF IMPLEMEI ADMINISTRATIVE LEAD CONTRACT DATES: DELIVERY DATE:	NTAT DTIM FY	ΓΙΟΝ:	SHIP# 1 Mon		_	PRODUCTION FY 2001:	ON LE	EADTIME:	(\$ i	2 - - n Millions	Mon	FY 2	<u>-</u> 2002: 2002:				-					
Cost:	Pri	or Years	FY	2000		FY 2001	F	Y 2002	(4.		-,		ı	Y 2003								
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	1					ı		Qty		1				
PRIOR YEARS																						
FY 2000 EQUIPMENT					3	0.02	16	0.11														
FY 2001 EQUIPMENT																						
FY 2002 EQUIPMENT																						
FY 2003 EQUIPMENT																						
FY 2004 EQUIPMENT																						
FY 2005 EQUIPMENT																						
FY 2006 EQUIPMENT																					Ш	
FY 2007 EQUIPMENT																					Ш	
TO COMPLETE																						
INSTALLATION SCHI FY 2000 & Prior In 0 Out 0	EDUI	FY 2		4 0 5 1	5	Y 2002 3 4 6 0 5 6																
						17		447	DA 05							CL A	COL	P-3A		ACCIFIED		
						П	EM	117	PAGE 22							CLA	SSIF	ICATION: U	NCL	-A99IFIED		

CLASSIFICATION: UNCLASSIFIED																						
P3A		INDIVIDU	AL MC	DIFICA	TION																	
MODELS OF SYSTEM AFFECTED:	SSN	719-725, 7	50-77	3.	TYP	E MODI	FICAT	ION:		KP SHIF	PALT	_			MOE	DIFICATION	ON TI	ITLE:		g Linkage U	pgrade	
DESCRIPTION/JUSTIFICATION:																			(5A11	8)		
This alteration modifies the VLS fairing to N					ith pre	dominaı	ntly of	f-shelf ha	rdware	e to provi	de ind	creased a	accura	acy of adj	justme	ent and e	limina	ate poten	itial bind	ding and int	erference a	reas.
DEVELOPMENT STATUS/MAJOR DEVELO	OPME	NT MILEST	ONES	S:								-										
	Prior QTY			2000	FY 2 QTY	001 \$	FY 2 QTY															
FINANCIAL PLAN (IN MILLIONS)						-																
RDT&E																						
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT			1	0.67			1	0.32														
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST								0.15														
TOTAL PROCUREMENT		0.00		0.67		0.00		0.47														

CLASSIFICATION: UNC	CLAS	SIFIED																		
P3A (Continued)				INDIVIDU	JAL N	ODIFICATI	ON (C	ontinued												
MODELS OF SYSTEMS	AFFI	ECTED:	SSN 7	719-725, 7	50-77	73MOI	DIFICA	TION TITLE	i:	Fairing	Linkage l	Jpgrade	5A118)					-		
INSTALLATION INFORM METHOD OF IMPLEMEI ADMINISTRATIVE LEAD CONTRACT DATES: DELIVERY DATE:	NTAT DTIME FY	ION:	SHIPA 4 Mon		_	PRODUCT FY 2001: FY 2001:	ΓΙΟΝ L	EADTIME:		8	<u>Months</u>	FY 2002 FY 2002				<u>-</u>				
									(\$	in Millio	ns)								,	
Cost:	Pric Qty	r Years \$	FY Qty	/ 2000 \$	Qty	FY 2001 \$	Qty	Y 2002 \$					FY 2003	<u> </u>	Qty					
	Qty	Ð	Qty	Ψ	Qty	Ψ	Qty	Ψ							Qty					
PRIOR YEARS																				
FY 2000 EQUIPMENT							1	0.15												
FY 2001 EQUIPMENT																				
FY 2002 EQUIPMENT																				
FY 2003 EQUIPMENT																				
FY 2004 EQUIPMENT																				
FY 2005 EQUIPMENT																				
FY 2006 EQUIPMENT																				
FY 2007 EQUIPMENT																				
TO COMPLETE																				
INSTALLATION SCHI FY 2000 & Prior In 0 Out 0	EDUL	E: FY 20 1 2 0 0 0 0	001 3 0 0	- 4 1 0 1 0 0		7 <u>2002</u> - <u>3</u>											D 24			
																	P-3A			

ITEM 117 PAGE 24 CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED INDIVIDUAL MODIFICATION MODELS OF SYSTEM AFFECTED: SSN 719-725, 750-773. TYPE MODIFICATION: KP SHIPALT MODIFICATION TITLE: Hall Switch (5A118) DESCRIPTION/JUSTIFICATION: This alteration replaces internal glass-body electromechanical reed switches with an electronic Hall Effect switch actuated by a single pole magnetic field to provide ease of manufacture, eliminate magnet rotational positioning of present magnets, and allow use of higher reliability magnets better suited to the environment. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Prior Yrs FY 2000 FY 2001 FY 2002 QTY QTY \$ QTY \$ QTY \$ FINANCIAL PLAN (IN MILLIONS) RDT&E **PROCUREMENT INSTALLATION KITS INSTALLATION KITS - UNIT COST** INSTALLATION KITS NONRECURRING **EQUIPMENT EQUIPMENT NONRECURRING ENGINEERING CHANGE ORDERS** DATA TRAINING EQUIPMENT SUPPORT EQUIPMENT OTHER OTHER OTHER INTERIM CONTRACTOR SUPPORT **INSTALL COST**

TOTAL PROCUREMENT

ITEM 117 PAGE 25 CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UN	CLAS	SIFIED															
P3A (Continued)	P3A (Continued) INDIVIDUAL MODIFICATION (Continued																
MODELS OF SYSTEMS	S AFF	ECTED:	SSN 7	19-725, 7	50-77	<u>3</u> MOI	DIFICA	TION TITLE	: <u>Ha</u>	I Switc	h (5A118)						
INSTALLATION INFORI METHOD OF IMPLEME ADMINISTRATIVE LEAI CONTRACT DATES: DELIVERY DATE:	NTAT DTIMI FY	ION:	SHIPA 2 Mon		-	PRODUCT FY 2001: FY 2001:	ΓΙΟΝ L	EADTIME:		6 Mo	nths FY 2 FY 2			- -			
									(\$ in N	illions)							
Cost:		or Years		2000		FY 2001		Y 2002 \$				FY 2003	04.				
	Qty	\$	Qty	\$	Qty	\$	Qty	\$					Qty				
PRIOR YEARS																	
FY 2000 EQUIPMENT																	
FY 2001 EQUIPMENT																	
FY 2002 EQUIPMENT																	
FY 2003 EQUIPMENT																	
FY 2004 EQUIPMENT																	
FY 2005 EQUIPMENT																	
FY 2006 EQUIPMENT																	
FY 2007 EQUIPMENT																	
TO COMPLETE																	
INSTALLATION SCH FY 2000 & Prior In 0 Out 0	EDUL	E: FY 20 1 2 0 0 0 0	001 3 0 0	4 1 0 0 0 0	0	2002 3 4 0 0 0 0											
															P-3A		

ITEM 117 PAGE 26

CLASSIFICATION: UNCLASSIFIED																						
P3A INDIVIDUAL MODIFICATION																						
MODELS OF SYSTEM AFFECTED:	SSN 719-725, 750-773.				TYP	E MOD	IFICAT	ION:		KP SHII	PALT	_			MOD	IFICATI	ON TI	TLE:		ved Hydrau	lic Block Up	grade
DESCRIPTION/JUSTIFICATION:																			(5A11	8)		
This alteration provides improved shaft, cle	evis, ar	nd turnbucl	de on th	e fairir	ng cylin	der and	d modif	ies the Ic	ock arm	to impro	ove ea	ase of a	djustme	ent								
L DEVELOPMENT STATUS/MAJOR DEVELO	ОРМЕ	NT MILES	TONES	:								_										
	Prior Yrs FY 2000 FY 2001 FY 2002 QTY \$ QTY \$ QTY \$ QTY \$																					
FINANCIAL PLAN (IN MILLIONS)		Ť		*		•																
RDT&E																						
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT							1	0.54														
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST																						
TOTAL PROCUREMENT								0.54														
								ITEM	117	P	AGE	27				-			CLAS	SIFICATIO	V: UNCLA	SSIFIED

CLASSIFICATION: UNO	CLAS	SIFIED																				
P3A (Continued) INDIVIDUAL MODIFICATION (Continued																						
MODELS OF SYSTEMS	AFF	ECTED:	SSN 719-725, 750-773 MODIFICATION TITLE:						≣:	Improved Hydraulic Block Upgrade (5A118)												
INSTALLATION INFORM METHOD OF IMPLEME ADMINISTRATIVE LEAD CONTRACT DATES: DELIVERY DATE:	NTAT DTIME FY	TION: SHIPALT								8 Months FY 2002: FY 2002:												
										(\$ in Milli	ions)			FY 2003				1		1		
Cost:	Prio Qty	or Years \$					Qty	Y 2002 \$														
	Qty	Φ	Qty	Ψ	Qty	Ψ	Qty	Ψ								Qty						
PRIOR YEARS																						
FY 2000 EQUIPMENT																						
FY 2001 EQUIPMENT																						
FY 2002 EQUIPMENT																						
FY 2003 EQUIPMENT																						
FY 2004 EQUIPMENT																						
FY 2005 EQUIPMENT																						
FY 2006 EQUIPMENT																						
FY 2007 EQUIPMENT																						
TO COMPLETE																						
INSTALLATION SCH FY 2000 & Prior In 0 Out 0	EDUL	E: FY 2 1 2 0 0 0 0	001 3 0 0	4 1 0 0 0 0	0	2002 3 4 0 0 0 0																
																		P-3A				

ITEM 117 PAGE 28 CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED																					
P3A		INDIVIDUA	L MO	DIFICAT	ION																
MODELS OF SYSTEM AFFECTED:	MK-41	Vertical Lau	nch Su	ırface Sys	TYPI	E MODIF Sep-00		ION:	MK-4	1 Verticial	Laund	hing Syste	em	MOD	IFICATI	ON T	ITLE:	Mk-4	1 VLS ORDA	ALTS	
DESCRIPTION/JUSTIFICATION:						Sep-00															
Various ORDALTs for providing launch cap	ability	for newer m	issile	variants	as we	ll as grea	ater re	eliability,	opera	bility and	maint	ainability	' .								
L DEVELOPMENT STATUS/MAJOR DEVELO	OPMEN	NT MILESTO	ONES:									_									
	Prior Yrs FY 2000 FY 2001 FY 2002																				
	1 1101	113	112		112	001	112	\$													
FINANCIAL PLAN (IN MILLIONS)																					
RDT&E																					
<u>PROCUREMENT</u>																					
INSTALLATION KITS																					
INSTALLATION KITS - UNIT COST																					
INSTALLATION KITS NONRECURRING																					
EQUIPMENT	var	1.6	var	0.0	var	2.4	var	0.4													
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER TOOLING/TEST EQUIP		0.0		0.0		0.0		0.0													
OTHER PRODUCTION		1.4		1.5		0.2		0.2													
INTERIM CONTRACTOR SUPPORT		0.034		0.026		0.026		0.000													
INSTALL COST		0.8		0.8		1 1		0.6													

1.1

2.3

3.8

3.9

TOTAL PROCUREMENT

02/10011/10/11/014.	0		J																	
P3A (Continued) INDIVIDUAL MODIFICATION (Continued)																				
MODELS OF SYSTEMS AF	FECTE	D: <u>D</u>	963/C0	G47/DDG 5	1 Cla	<u>s</u> s	MODIFICATION TITLE: MK-41 Vertical Launching Systems Jun-01													
INSTALLATION INFORMA	TION:															<u>-</u>				
METHOD OF IMPLEMENT	ATION:	-	AIT		_															
ADMINISTRATIVE LEADTI	ME:		6 Mor	nths		PRODUC	TION	LEADTIME:			18 Moi	nths	_							
CONTRACT DATES:	FY 2	000:				FY 2001:						FY 2	2002:				_			
DELIVERY DATE:	FY 2	000:		•		FY 2001:				<u>_</u>		FY 2	2002:				-			
				•						(\$ in !	Millions)						•			
Cost:	Prio	Years	F۱	/ 2000	F	Y 2001	ı	Y 2002		(ψ				FY 2003						
	Qty	\$	Qty	\$	Qty	\$	Qty	\$								Qty				
PRIOR YEARS				0.8		0.0		0.0												
FY 2000 EQUIPMENT					var	1.1														
FY 2001 EQUIPMENT							var	0.6												
FY 2002 EQUIPMENT									var											
FY 2003 EQUIPMENT																				
FY 2004 EQUIPMENT																				
FY 2005 EQUIPMENT																				
FY 2006EQUIPMENT																	<u> </u>			
FY 2007 EQUIPMENT																				
TO COMPLETE																				
INSTALLATION SCH FY 2000 & Prior IN 0 OUT 0	1 0	FY 200 2 3 0 0 0 0	0			0														

UNCLASSIFIED

		Е	BUDGET ITE	M JUSTIFICA	ATION SHEE	T			DATE:			
				P-40						June	2001	
APPROPRIATION/BUD	GET ACTIVI	ΓΥ					P-1 ITEM NOM	IENCLATURE				
OTHER PROCURE	MENT, NA	VY - (B	A-4) Ordnan	ce Support	Equipment		Stra	ategic Platfo	rm Support	Equipment/#	#535500/#53 5	5506
Program Element for Co	de B Items:						Other Related	Program Eleme	nts			
	Prior	ID									То	
	Years	Code	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	Total
QUANTITY												
COST												
(In Millions)		Α	\$9.2	\$2.9	\$9.8							
SPARES COST												
(In Millions)												

PROGRAM DESCRIPTION/JUSTIFICATION:

Funding in this P-1 line provides for the procurement of TRIDENT Platform Support Equipment, specifically for ordnance support, ship alterations and test equipment for the TRIDENT Submarine and TRIDENT Refit Facility (TRIREFFAC) located at Naval Submarine Bases (Bangor, WA and Kings Bay, GA) and other support facilities. The TRIDENT program has shifted from its modernizationphase to a program designed to maintain TRIDENT's capability to perform its defined mission. This will be accomplished via its Obsolete Equipment Replacement (OER) program.

OBSOLETE EQUIPMENT REPLACEMENT (OER) - Replacement of existing ordance hardware/software that though functional has become operationally obsolete, is no longer in production or supportable with spare parts, has a high failure rate, or is no longer cost effective to maintain. OER hardware/software changes would be expected to provide a significant cost savings in reduced maintenance costs and would use Commercial-Off-The-Shelf (COTS) Technology where ever possible as long as all technical requirements are met.

INSTALLATION (ORDNANCE) - Provides funding for ordnance equipment installation (commenced FY98) resulting from the TRIDENT OER Program.

P-1 SHOPPING LIST ITEM NO. 118 PAGE NO. 1

CLASSIFICATION:

	WEAPONS SYSTEM C	OST A	NALYSIS			Weapon Sy	stem							DATE:	
	P-5					TRIDENT D	efensive V	/eapons Syst	tem					Jun	e 2001
	RIATION/BUDGET ACTIVITY					ID Code	P-1 ITEM N	IOMENCLATU	RE/SUBHEAD)					
Other Pi	rocurement, Navy						044	DI-46 0	· · · · · · · · · · · · · · · · · · ·		1110				
BA-4: C	Ordnance Support Equipment		TOTAL COS	T IN THOUS	SANDS OF DO		Strategic	Platform S	support Eq	uipment/	3409				
			TOTAL COS	I IN THOUS	SANDS OF DC	DLLAKS									
COST	ELEMENT OF COST	ID	Prior		FY 2000			FY 2001			FY 2002				
CODE		Code	Years Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost			1
			rotal ooot	Quantity	01111 0001	rotal coot	Quantity	OTHE OODE	Total Cool	Quantity	01111 0001	rotal occi			
U9221	Equipment OER	Α				9,051			2,875			9,155			
03221	Equipment OLIX					3,001			2,070			5,105			
LIOINIO	La stallation	١.										200			
U9INS	Installation	Α				141			0			668			
1															
1															
1															
ļ	<u> </u>													+	+
DD FORM	2446, JUN 86		0		P-1 SHOPPIN	9,192			2,875			9,823 CLASSIFICA	TION		
אט דטעוען	2440, JUN 00				L-1 OUCLUI	NG LIOI						CLASSIFICA	TION:		

									June 2001	1
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NON				SUBHEAD	
Other Procurement, Navy					Strategic Pla	atform Support Equipme	nt			84U9
BA-4: Ordnance Support Equipr	nent					lete Equipment Replacer	nent (OE			
Cost Element/	QUANTITY	UNIT	LOCATION	RFP ISSUE	CONTRACT METHOD	CONTRACTOR	AWARD	DATE OF FIRST	SPECS AVAILABLE	DATE REVISIONS
FISCAL YEAR	QUANTITI	COST (000)	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLE
Fiscal Year (00) PSNS SSBN 732 Overhaul	*	\$1,241.70	NAVSEA	N/A	WR	PSNS, Bremerton, WA	5/00	6/00	YES	
MK2 Block 1C (Shipsets 735/738)	2	\$847.60	NAVSEA	N/A	CPFF	· ·	7/00	4/02	YES	
,	\ *	*	NAVSEA		WR	RSSD, Manassas, VA			_	
CCS MK2 Block 1C (TUE)	*	\$2,105.00		N/A		NUWC Newport, RI	3/00	1/02 1/02	YES YES	
CCS MK2 Block 1C (TUE)		\$66.00	NAVSEA	N/A	RC	NAWC TSD, Orlando, FL	6/00		_	
CCS MK2 Block 1C (TUE)	1	\$601.80	NAVSEA	N/A	CPFF	Lockheed M., Manassas VA	5/00	1/02	YES	
MK96 Shielding Issue	1	\$38.40	NAVSEA	N/A	WR	NUWC Keyport, WA	5/00	1/02	YES	
CCS MK2 Block 1C (TLCSF)	*	\$264.70	NAVSEA	N/A	CPFF	Lockheed M., Manassas VA	7/00	1/02	YES	
CCS MK2 Block 1C (TLCSF)	*	\$43.10	NAVSEA	N/A	RC	NUWC Newport, RI	7/00	1/02	YES	
CCS MK2 Block 1C (SS) Oper.	1	\$825.60	NAVSEA	N/A	CPFF	RSSD, Manassas, VA	7/00	4/02	YES	
CCS MK2 Block 1C (SS) Oper.	1	\$372.90	NAVSEA	N/A	RC	NUWC Newport, RI	4/00	4/02	YES	
CCS MK2 Block 1C (SS) Oper.	1	\$1.10	NAVSEA	N/A	WR	NUWC Keyport, WA	4/00	4/02	YES	
CCS MK2 Block 1C Surcharge	*	\$32.80	NAVSEA	N/A	WR	NUWC Newport, RI	5/00	N/A	YES	
CCS MK2 Block 1C (TLCSF)	*	\$53.60	NAVSEA	N/A	WR	NUWC Keyport, WA	4/00	4/02	YES	
CCS MK2 Block 1C (TLCSF)	*	\$102.30	NAVSEA	N/A	RC	NUWC Newport, RI	4/00	4/02	YES	
Rev. 5.6 DPS UYK-43	*	\$71.40	NAVSEA	N/A	WR	NUWC Newport, RI	6/00	4/02	YES	
MK2 Block 1C (Shipsets 735/738)	2	\$372.85	NAVSEA	N/A	RC	NUWC Newport, RI	6/00	4/02	YES	
MK2 Block 1C (Shipsets 735/738)	2	\$26.80	NAVSEA	N/A	WR	NUWC Keyport, WA	4/00	4/02	YES	
MK2 Block 1C FY99 733/TTFB	1	\$162.70	NAVSEA	N/A	CPFF	Lockheed M., Manassas VA	7/00	4/01	YES	
MK2 Block 1C FY99 733/TTFB	1	\$89.20	NAVSEA	N/A	RC	NUWC Newport, RI	4/00	4/01	YES	
MK2 Block 1C FY99 733/TTFB	1	\$27.90	NAVSEA	N/A	WR	NUWC Keyport, WA	4/00	4/01	YES	
MK2 Block 1C Shipsets 738	1	\$159.10	NAVSEA	N/A	CPFF	Lockheed M., Manassas VA	7/00	4/02	YES	
CCS Rev. 7.0 Cert/Testing	1	\$73.90	NAVSEA	N/A	WR	NUWC Newport, RI	8/00	4/01	YES	
CCS Rev. 7.0 (MK2 BL1C)	1	\$180.90	NAVSEA	N/A	WR	NUWC Newport, RI	9/00	4/01	YES	
DWS/CS Hardware	1	\$42.50	NAVSEA	N/A	WR	NUWC Newport, RI	8/00	4/01	YES	
Fiscal Year (01)										
MK2 Block 1C (ATWCS)	1	\$256.70	NAVSEA	N/A	WR	NUWC Newport, RI	8/01	4/02	YES	
CCS Rev. 7.1 Certification/Testing	1	\$400.00	NAVSEA	N/A	WR	NUWC Newport, RI	3/01	4/02	YES	
CSA MK2 6" EXCM HM&E Material	1	\$504.00	NAVSEA	N/A	CPFF	EB Corp., Groton, CT	3/01	4/02	YES	
CCS Rev. 7.1 Planning Yard	1	\$996.00	NAVSEA	N/A	CPFF	EB Corp., Groton, CT	3/01	4/02	YES	
CCS MK2 Block 1C (TUE)	*	\$142.00	NAVSEA	N/A	WR	NUWC Newport, RI	3/01	4/02	YES	
ARCI Phase I/II(TA&HA MPP)(TUE)	*	\$366.00	NAVSEA	N/A	WR	NUWC Newport, RI	3/01	4/02	YES	
AN/UYK-43 OSM (NUWC)	1	\$87.30	NAVSEA	N/A	CPFF	Lockheed M., Manassas VA	2/01	4/02	YES	
Misc. NAVSEA Adj.	'	\$123.00	NAVOLA	IVA	CITI	Lockneed W., Wallassas VA	2/01	4/02	ILS	
Fiscal Year (02)										
CCS MK2 Block 1C Shipsets	3	\$1.561.66	NAVSEA	N/A	WR	NUWC Newport, RI	2/02	4/04	YES	
CSA MK2 6" EXCM HM&E Material	8	\$558.75	NAVSEA	N/A	CPFF	EB Corp., Groton, CT	2/02	4/04	YES	

D. REMARKS

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

^{*} Procurement to support modification of TRIDENT Shore Sites and installation of shore based CCS MK2 Block 1C. Procures various components/technical support not broken out on this report.

UNCLASSIFIED

BUDGET PROCUREMENT HISTO	RY AND PL	ANNING E	XHIBIT (P-5A)			Weapon System		A. DATE		
									June 200	1
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NON	MENCLATURE			SUBHEAD	
Other Procurement, Navy					Strategic Pla	atform Support Equipm	ent			84U9
BA-4: Ordnance Support Equipm	ent				U9INS Instal	lation				
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
Fiscal Year (00) CCS MK2 Block 1C	1	\$141.00	NAVSEA	N/A	WR	NUWC,Newport, RI	5/00	4/02	Yes	
<u>Fiscal Year (01)</u> None										
Fiscal Year (02) CCS MK2 Block 1C (TUE)	1	\$688.00	NAVSEA	N/A	WR	NUWC Newport, RI	2/02	4/04	Yes	
D. REMARKS										

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

ITEM NO. 118 PAGE NO. 4 UNCLASSIFIED

\sim 1	ACCIE			ACCIPIED
	ADDIE	IL A LIL JIV	UNIVE	.ASSIFIED

P3A	INDIVIDUAL MODIFICAT	ION			
	TRIDENT Defensive Weapons Sys. (CCS				CCS MK2 Block 1C Upgrade on OHIO Class
MODELS OF SYSTEM AFFECTED:	MK2 Mod3//DWS MK118 OER Upgrade	TYPE MODIFICATION:	Obsolete Equipment Replacement	MODIFICATION TITLE:	Submarines

DESCRIPTION/JUSTIFICATION:

Replace obsolete equipment and achieve optimum commonality among submarine combat systems.

	EV 10	999 & Prior	EV	2000	E١	<u>/ 2001</u>	ΕV	2002	EV	2003	E/	<u> 2004</u>	E۷	2005	EV	2006	EV	2007		<u>TC</u>	TO	TAL_
	QTY		QTY		QTY		QTY		QTY	<u>2003</u> \$	QTY		QTY			\$	QTY		QTY		QTY	<u> </u>
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E		5.6																			0	5.6
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT	2	2.9	2	3.63			3	4.69													7	11.2
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA						Note #3	lacksquare															
TRAINING EQUIPMENT	1	1.1	1	1.20	1	0.00															3	2.3
SUPPORT EQUIPMENT	1	1.4																			1	1.40
OTHER*	*	0.2	*	3.0	*	2.37																5.57
OTHER*			*	1.24																		1.24
OTHER**																						
INTERIM CONTRACTOR SUPPORT				_ N	lote #	2		N	ote #1													
INSTALL COST			2	0.14	1	0.0	2	0.7													5	0.84
TOTAL PROCUREMENT	4	5.6	3	9.1	1	2.4	3	4.69													11	21.7

Note #1 Shows Installation cost for 2 units in FY02. 1 SSN Trainer unit covered by STF San Diego in FY02.

Note #2 CCS MK2 Block 1C Installation costs are covered under ARCI/CCS MK2 Block1C Installation during D-5 Conversion Period (ie. SSBN 732 (in FY00) and SSBN 733 (in FY01) are covered under BA2 Installation (BLI 267606)).

Note #3 Procured separately.

^{*} Procurement to support modification of TRIDENT Shore Sites and installation of shore based CCS MK2 Block 1C. Procures various components/technical support not broken out on this report.

^{**} Procurement to support CCS MK2 Technology Refresh (CCS Revision 9.0).

P3A (Continued)				INDIVID	UAL	MODIFI	CAT	ION ((Continued)																
MODELS OF SYSTEMS	SAF	ECTED:	:			N	10DI	FICA	TION TITLE	:	CCS	S MK2	2 Bloc	k 1C L	Jpgra	de on	OHIO Cla	ss Subm	arine			_			
INSTALLATION INFOR																									
METHOD OF IMPLEME ADMINISTRATIVE LEA			Engine	ered Ava	<u>ila</u> bili				LEADTIME:		04.5	4 41-	_												
CONTRACT DATES:		2000:	12/99			FY 20		HON	12/00			/lonth	S		FY 2	2002:		12/01							
DELIVERY DATE:			12/01			FY 20			12/02							2002:		12/03		_					
		-		•							/¢ i	n Milli	ione)												
Cost:	Pric	or Years	FY	2000		FY 2001		F	Y 2002	F	- (Ψ ι -Y 200			Y 200	4	F	Y 2005	FY	′ 2006	F	Y 2007	To C	omplete	,	Total
	Qty		Qty	\$	Qt			Qty	\$	Qty		\$	Qty	\$		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
		l (N ote	а																					
PRIOR YEARS			2	0	.1 1		0.0	1	0.00															4	0.1
FY 2000 EQUIPMENT								1	0.70															1	0.7
FY 2001 EQUIPMENT									N ote b															0	0.0
FY 2002 EQUIPMENT																								0	0.0
FY 2003 EQUIPMENT																								0	0.0
FY 2004 EQUIPMENT																								0	0.0
FY 2005 EQUIPMENT	1																							0	0.0
FY 2006 EQUIPMENT																								0	0.0
FY 2007 EQUIPMENT																								0	0.0
TO COMPLETE																									0.0
TO COMPLETE	<u> </u>																							<u> </u>	
		. =																							
INSTALLATION SCH	IEDU 1								=>/		1							11			_				
FY 2000		FY 2				2002			FY 2003		ll .		2004				2005		FY 2006			2007		TC	
& Prior		1 2	3	4 1			4	1	2 3	4	1	2	3	4	1		3 4	1	2 3	4	1 2	_ 3			TOTAL
In 1		0 1	0	0 0			0	0	0 1	0		0	1	0	1	1	1 0	1	0 0	0	1 1	1	1	0	14
Out 0	┚┖	0 0	0	0 1	0	0	2	0	0 0	1	0	1	0	1	0	0	1 1	0	0 0	1	0 1	1	2	1	14

PAGE 6

Note a: Installation of TRIDENT Life Cycle Support Facility Shore Site and SSBN 732 shipset in FY00.

Note b: Installation of San Diego Team Trainer and SSBN 735 shipset in FY02.

Note c: Installation of Kings Bay Team Trainer, Norfolk Team Trainer and SSBN 738 shipset in FY03.

Note d: Installation of Bangor Team Trainer and SSBNs 736 & 740 shipsets in FY04.

Note e: Installation of Kings Bay and Bangor TRIDENT Refit Facility Shore Sites and SSBN 731 shipset in FY06.

ITEM 118

CLASSIFICATION: UNCLASSIFIED P3A		INDIVIDUA	L MO	DIFICA	TION																	
MODELS OF SYSTEM AFFECTED:	CSA I	MK2 MOD 0			TYP	E MODII	FICAT	ION:	Obsole	te Equipn	nent Rep	lacement			MOE	IFICAT	ION T	ITLE:	Six Ea	ach External (Countermeasur	es
DESCRIPTION/JUSTIFICATION:					_								_									
Replaces the CSA MK1 5 Inch External Co	unterr	measure Sy	stem v	vith the	CSA N	1K2 MOI	0 6 Inc	ch Exter	nal Cou	ınterme	asure S	System of	on SS	BNs 730	-733,	735-740						
L DEVELOPMENT STATUS/MAJOR DEVELO	OPME	NT MILEST	ONES):																		
	FV 1	999 & Prior	F۱	2000		/ 2001	F۱	′ 2002	ΕV	2003	ΕV	′ 2004	E/	Y 2005	F۷	2006	F۷	2007		<u>TC</u>	TO	ΤΔΙ
	QTY		QTY		QTY			\$	QTY					\$		\$		\$	QTY		QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT			1	**	1	0.50	8	4.47													10	5.0
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																						0.0
SUPPORT EQUIPMENT																						0.0
OTHER																						0.0
OTHER																						0.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST							6	*													6	0.0

8 4.47 ITEM 118

PAGE 7

10 5.0 CLASSIFICATION: UNCLASSIFIED

TOTAL PROCUREMENT

0.00

1 0.00 1 0.50

^{*} Iinstallation Activity to be determined.
** One procurement made with BA2 (267600) in FY00.

CLASSIFICA	ATION: UNC	CLAS	SIFIED																												
P3A (Continu	ued)				INDI	VIDU	JAL N	ODIF	ICA	TION	(Contir	nued))																		
MODELS OF	SYSTEMS	AFF	ECTED	: CSA	MK2 N	MOD	0	_	MOE	DIFIC	ATION T	TITLE	≣:	Six	Inch E	Extern	al Co	unterr	meası	ures								_			
INSTALLATI				- .			, .																								
METHOD OF ADMINISTRA				Three p	hased	d refit	/piers				LEAD	TIN 4 E		40 1	100th	s/9N	10046	o for l	.ito												
CONTRACT		_	2000:	12/99	a			FY 2		-		111VI⊑ 12/00	-	12 1	/IOHIH	5/9 N	/IOIIIII		2002:			10/01									
DELIVERY D			2000:	9/00	_			FY 2				9/01							2002:	<u>-</u>		7/02									
														(\$ in	Millic	ons)															
Cos	st:		r Years		/ 2000			Y 200			FY 2002			Y 200			Y 20			Y 200			/ 2006			Y 20			omplet		Total
		Qty	\$	Qty		\$	Qty	\$		Qty	\$		Qty	(\$	Qty		\$	Qty	\$		Qty	9	5	Qty	;	\$	Qty	\$	Qty	\$
PRIOR YEA	ARS																													0	0.0
FY 2000 EC	QUIPMENT									1	*																			1	0.
FY 2001 E	QUIPMENT									1	*																			1	0.
FY 2002 EC	QUIPMENT									4	*																			4	0.0
FY 2003 EC	QUIPMENT																													0	0.0
FY 2004 E0	QUIPMENT																													0	0.0
FY 2005 EC	QUIPMENT																													0	0.0
FY 2006 EC	QUIPMENT																													0	0.0
FY 2007 EC	QUIPMENT																													0	0.0
TO COMPL	ETE																														
INSTALLA	ATION SCH	EDUI	LE:															_													11
	FY 2000		-	2001				2002			FY 2					2004				<u>2005</u>			FY 20					2007		TC	
	& Prior		1 2	3	4	1		3_	4	1		3	4	1_	2	3	4	1	2	3_	4	1	2	3	4	1_	2	3			TOTAL
In Out	0		0 0	0	0	0	1	1 0	4	1 1	1 2	2	0	0 2	0 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10 10
Out	U	J L	0 0	0	U	U	U	U	- !	1 🗀		- 1	- 1			U	U	U	U	U	U	0	U	U	U	U	U	U	U	U	10
* Installa	tion Activity	to be	determ	ined.																											

BUDGET ITEM JUSTII	FICATION SH	EET				DATE	June 2001	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY / BUDGET ACTIVITY	1		P-1 ITEM NO STRATEGIC	OMENCLATU MISSILE SYS		MENT (53580	0)	
	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07
QUANTITY								
Cost (in millions)	\$236.7	\$165.1	\$205.1					

Funding in this P-1 line provides for the procurement of Strategic Weapons System (SWS) equipment for deployed SSBNs and shore support sites to support the TRIDENT program.

OTHER MATERIAL SUPPORT

A broad range of other material support equipment must be procured for deployed SSBNs, shore installations and contractor facilities. Included within this category are general and special purpose test equipment, launcher expendables, navigation principal items, test instrumentation in support of missile flight tests, missile checkout equipment and weapons system operation and evaluation equipment. Amounts included within this P-1 line for this category are subdivided as follows:

		(\$000	0)
	FY 2000	FY 2001	FY 2002
Launcher and Handling Equipment	0	8,900	3,600
Fire Control Equipment	1,500	1,000	3,200
Navigation Equipment	2,200	3,300	8,800
Instrumentation/Missile Checkout Equipment	0	0	3,800
Weapons System Operation and Evaluation Equipment	400	0	0
Total	\$4,100	\$13,200	\$19,400

Launcher and Handling Equipment: Funding in FY 2001 - FY 2002 is required to procure Launcher Expendables (namely, MK-74 Gas Generators and Launch Tube Closures).

Fire Control Equipment: Funding in FY 2000 - FY 2002 provides for Capital Maintenance Projects at the Naval Industrial Reserve Ordnance Plant (NIROP) in Pittsfield, MA; these projects are essential to correct environmental, safety and energy conservation deficiencies. The FY 2002 request also provides for procurement of MK-98 Mod 1 and Mod 4 Fire Control System and Support Equipment replacement items onboard SSBNs and at shore sites.

Navigation Equipment: Funding is required in all years for replacement of worn or damaged items of inertial test equipment used at contractors' plants to support test, evaluation, and analysis of inertial instruments; and for procurement of critical components essential to maintain configuration control and equipment reliability.

DD FORM 2454, JUL 88

P-1 SHOPPING LIST ITEM NO. PAGE NO. 119 1 **EXHIBIT P-40 BUDGET JUSTIFICATION SHEET**

Instrumentation/Missile Test Equipment: Funding in all years provides for shorebased and shipboard test instrumentation equipment in support of missile flight tests and for procurement of surface support equipment end items to satisfy replacement requirements generated by fleet-related tactical activities. The FY 2002 request also provides for procurement of, and upgrades to, telemetry and destruct systems essential to establishing a TRIDENT II (D-) flight test capability in the Pacific.

Weapon System Operation and Evaluation Equipment: The FY 2000 and FY 2001 funding provided for replacement of weapon system evaluation equipment which is becoming insupportable as a result of component obsolescence.

ALTERATIONS

Alterations to non-flying tactical hardware are continuing requirements for the Strategic Weapons Systems. Alterations (SPALTs) entail the application of available technology to eliminate personnel safety hazards, correct design deficiencies, maintain system effectiveness by resolving equipment operability problems, and achieve logistic economies. SPALT estimates include both known alterations related to resolution of specific problems as well as calculated, formula-generated alterations based on recent experience. Amounts included in this P-1 line for alterations are subdivided as follows:

		(\$00	0)
	FY 2000	FY 2001	FY 2002
Launcher and Handling Equipment	6,000	950	2,200
Fire Control Equipment	54,200	12,350	34,800
Navigation Equipment	31,000	14,300	17,700
Instrumentation/Missile Checkout Equipment	4,000	1,900	9,000
Total	95,200	\$29,500	\$63,700

Funds are required to procure formula generated alterations to the Strategic Weapons System launcher and fire control subsystems; to inertial, non-inertial, and Electrostatically Supported Gyro Navigator (ESGN) navigation subsystem equipment on deployed SSBNs and installed at supporting shore facilities, including the TRIDENT Training Facility (TTF), Bangor, TTF, Kings Bay, the Ashore Navigation Center, and the Inertial System Test Laboratory; to test instrumentation used on SSBNs, support ships and at the Eastern Test Range, the TRIDENT Refit Facility (TRF), Bangor, and TRF Kings Bay; and to missile handling equipment, missile test and readiness equipment, and surface support equipment. Installation of approved SPALTs is performed on a turnkey basis in conjunction with the procurement of equipment. Use of Commercial-off-the-Shelf/Non-Developmental Items (COTS/NDI) has been initiated and is being implemented in all subsystems, wherever possible.

Funding is included in FY 2000 through FY 2002 for Fire Control alterations to assure a single configuration of TRIDENT II Strategic Weapons System. The same MK-98 Mod 4, COTS/NDI-based, open-system-architecture Fire Control System scheduled for installation on the four Pacific-based TRIDENT I SSBNs to be backfitted to TRIDENT II capability will be installed on the ten Atlantic-based TRIDENT II SSBNs that presently carry the MK-98 Mod 1 version.

DD FORM 2454, JUL 88

P-1 SHOPPING LIST ITEM NO. PAGE NO. 119 2

EXHIBIT P-40 BUDGET JUSTIFICATION SHEET

TRAINING

This category provides for procurement of, and alterations to, both tactical and non-tactical equipment required at submarine training facilities to train personnel in the operation and maintenance of launcher and handling, fire control, navigation, missile checkout, and sonar subsystems. Each training facility consists of an integrated family of system and unit laboratories that interface with a central stimulation complex to provide complete and realistic training for replacement and off crew personnel, both officer and enlisted, as required for manning of SSBNs and shore facilities. Funding in FY 2000 - FY 2002 is budgeted to procure training unique equipment required as the result of SPALTs to SWS tactical equipment. Amounts included in this P-1 line for training are as follows:

(4000)

	FY 2000	(\$00 FY 2001	00) <u>FY 2002</u>
Training Support Equipment	\$3,586	\$4,490	\$3,694

TRIDENT II (D-5) BACKFIT

Beginning in FY 2000, four 726-Class TRIDENT I (C-4) submarines will be backfitted to TRIDENT II (D-5) configuration during their regularly scheduled overhauls. OPN funding for this effort supports procurement of TRIDENT II (D-5) weapons system equipment required to replace C-4 equipment. FY 2000 FY 2002 funding supports production, on a lead-time-from-need basis, of TRIDENT II SWS subsystem and training equipment.

		(\$0	000)
	FY 2000	FY 2001	FY 2002
TRIDENT II (D-5) Backfit	\$133,800	\$117,900	\$118,300

DD FORM 2454, JUL 88

P-1 SHOPPING LIST ITEM NO. PAGE NO. 119 3 **EXHIBIT P-40 BUDGET JUSTIFICATION SHEET**

WEAPON SYSTE	WEAPON SYSTEM COST ANALYSIS													
EXHIBIT (P-5) PROGR	AM COST	BREAKDOW	N				Jı	une 2001						
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENC	ATU	IRE/SUBHEAD										
OPN BA-4: ORDNANCE SUPPORT EQUIPMEN	Τ	STRA	ΓΕΟ	SIC MISSILE	SYS	STEMS	EQUIPME	NT/34U9						
		ТО	ΤΑΙ	L COST IN TH	lOU	ISANDS	OF DOL	LARS						
WEAPON SYSTEM	ldent.	FY 00 To	tal	FY 01 To	otal	FY 02	Total							
COST ELEMENTS	Code	Qty C	st	Qty C	ost	Qty	Cost							
Other Material Support		4,1	00	13,2	200		19,400							
Alterations		95,2	00	29,	500		63,700							
Training Support Equipment		3,5	86	4,4	190		3,694							
TRIDENT II Backfit		133,8	00	117,9	900		118,300							
Total		\$236 ,	686	\$165	090		\$205,094							

P-1 SHOPPING LIST ITEM NO. PAGE NO.

119

4

UNCLASSIFIED

		В	UDGET ITE	M JUSTIFIC	ATION SHE	ĒΤ			DATE:			
				P-40						June	2001	
APPROPRIATION/BUD	GET ACTIVI	TY					P-1 ITEM NON	MENCLATURE				
OTHER PROCURE	EMENT, NA	VY/BA-	4 Ordnance	Support Eq	uipment		SSN Comba	at Control Sy	stem BLI: 5	42000 SBH	D: H4VB	
Program Element for Co	ode B Items:						Other Related	Program Eleme	nts			
	Prior Years	ID Code	FY 2000	FY 2001	FY 2002							
QUANTITY												
COST (In Millions)			\$35.4	\$19.4	\$40.7							
SPARES COST (In Millions)					·							

INSERVICE ENGINEERING CHANGES (VB011)

Provides for the procurement of Engineering Changes (EC) and Ordnance Alterations (ORDALT) to correct fleet reported problems with Combat Control System software and hardware.; Reliability, Maintainability, and Availability (RM&A) deficiencies, and Safety issues associated with in-service SSN/SSBN Combat Control System components and interface Equipments, interfacing systems and peripheral or special equipment.

The MK 2 Technical Refresh program will provide for periodic upgrade to the MK 2 Block 1C system to incorporate changes to the COTS hardware and software required to maintain technical and logistics currency.

CCS OBSOLETE EQUIPMENT REPLACEMENT (OER) PROGRAM (VB034)

Provides for procurement of new software and hardware to satisfy OPNAV operational requirements to upgrade the current Combat control Systems on SSN submarines. The intent is to standardize capabilities and hardware configurations across all platforms.

The MK 2 Block 1C program will replace obsolete and unreliable equipment and will achieve optimum commonality among submarine combat systems by incorporating new commercial based processors to replace the existing MIL SPEC hardware; replacing the obsolete input/output device with a new, more reliable keyboard printer; adding a parallel processor for Over The Horizon Targeting and adding new Common Display Consoles to replace obsolete MK 81 Weapon Control Consoles. Additionally, the new Tactical Weapons Simulator replaces both the Mk 75 Digital Missile Simulator and the Mk 22 Weapon Simulator, saving space and weight, while improving reliability and logistics support.

The AN/BSG-1 program will provide a standalone system for interfacing the Combat Control System on all platforms with the nuclear TOMAHAWK missile.

The TOMAHAWK Breakout Box provides electrical access to the vertical launch system. This facilitates the insertion of simulation signals for the end-to-end calibration, testing and training.

The Tactical Weapons Simulator Upgrade expands the capability of the hardware to allow test of all weapon launchers at the same time.

The MK 2 Block 2 program will upgrade the Weapons Launching hardware and software.

P-1 SHOPPING LIST

ITEM NO. 120

PAGE NO. 1

CLASSIFICATION:

UNCLASSIFIED

DD Form 2454, JUN 86

CLASSIFICATION: UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET	DATE:
P-40 CONTINUATION	June 2001
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE
OTHER PROCUREMENT, NAVY/BA-4 Ordnance Support Equipment	SSN Combat Control System BLI: 542000 SBHD: H4VB

PRODUCTION SUPPORT (VB033)

This account (VB033) procures technical data, mock-ups, demonstrations and testing products directly for the SSN Combat System Obsolete Equipment Replacement (OER) program. Also procured are services required to support production engineering, quality assurance, product improvement and acceptance testing for production line items. Technical on-site support at shipyards and depots for hardware related problems is also included.

LOGISTIC SUPPORT REQUIREMENTS (VB983)

This account (VB900) procures integrated logistics products directly for the SSN Combat System Obsolete Equipment Replacement (OER) program. Also procured are logistics engineering services which perform essential documentation updates related to major hardware revision

INITIAL TRAINING (VB995)

This account funds the initial factory training (including both training deliverables and instructional services) for CCS hardware and software changes and upgrades implemented through the CCS OBSOLETE EQUIPMENT REPLACEMENT (OER) PROGRAM (VB034) and INSERVICE ENGINEERING CHANGES (VB011) lines.

CONSULTING SERVICES (VB900)

This account provides assistance for asset management, cost analyses, ORDALT planning, preparation of contract specifications, monitoring of contract deliverables, prime contractor cost, schedule and performance monitoring, ILS planning and GFI coordination.

EQUIPMENT INSTALLATION (VB5NS)

Funds are for the installation of Combat Control System equipments included in the Fleet Modernization Program.

NON-FMP INSTALLATION (VB6NS)

Funds are for the installation of Combat Control System equipments not included in the Fleet Modernization Program.

OTHER INFORMATION

Developmental efforts are funded by Program Element 64562N within the SSN Combat Control System Improvement Program F0236.

P-1 SHOPPING LIST

ITEM NO. 120 PAGE NO. 2

CLASSIFICATION:

CLASSIFICATION: UNCLASSIFIED

WEAPONS SYSTEM COST ANALYSIS Weapon System June 2001 P-5 APPROPRIATION/BUDGET ACTIVITY ID Code P-1 ITEM NOMENCLATURE/SUBHEAD Other Procurement, Navy **BA-4 Ordnance Support Equipment** SSN COMBAT CONTROL SYSTEM BLI: 542000 SBHD: H4VB TOTAL COST IN THOUSANDS OF DOLLARS COST ELEMENT OF COST FY 2000 FY 2001 FY 2002 ID Prior CODE Code Years Total Cost Quantity Unit Cost Total Cost Quantity Unit Cost Total Cost Quantity Unit Cost **Total Cost** Quantity Unit Cost Total Cost **N87 SUBMARINES** VB011 IN-SERVICE ENG CHANGES Α 11,266 1,942 7,071 4,840 1,025 1,033 ECP/Auxiliary Equipment CCS MK2 Technical Refresh 6,426 917 6,038 VB034 CCS OER PROGRAM MODS 7,912 2,127 6,381 16,275 CCS MK2 Block 1C Upgrade Kits В 4 1,978 7,912 3 2,127 6,381 4 2,249 8,996 AN/BSG-1 PLS В 3 667 2,001 TMHWK Break Box 13 406 5,278 Α MK2 TWS Upgrade Α CCS MK2 Block 2 Upgrade Kits В PRODUCTION SUPPORT VB033 1,398 1,245 1,591 CONSULTING SERVICES 1,253 **VB900** 1,110 517 VB983 LOGISTICS SUPPORT 3,425 1,026 1,319 VB995 INITIAL TRAINING 686 529 608 MATERIAL TOTAL 25,797 11,640 28,117 VB5NS **EQUIP INSTALLATION (FMP)** 10,918 9,556 5,716 NON-FMP EQUIP INSTALLATION VB6NS 2,060 1,681 35,353 19,416 40,716

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

ITEM NO. 120 PAGE NO. 3

CLASSIFICATION: UNCLASSIFIED

BUDGET PROCUREM	ENT HISTO	DRY AND F	PLANNING EXHIB	IT (P-5A)		Weapon System		A. DATE		
									June 200)1
B. APPROPRIATION/BUDGET	ACTIVITY				C. P-1 ITEM NON	IENCLATURE			SUBHEAD	
Other Procurement, N	lavy									
BA-4 Ordnance Suppo	ort Equipm	ent			SSN Comba	t Control System BLI:	542000		H4VB	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
CCS MK2 OER		, ,								
BLOCK 1C UPGRADES (FY00)	4	\$1,978	NAVSEA		SS/FP	RAYTHEON ELECTRONIC SYSTEMS Portsmouth, RI	07/00	11/01	YES	
BLOCK 1C UPGRADES (FY01)	3	\$1,659	NAVSEA		SS/FP	LOCKHEED MARTIN, NE&SS Eagan, MN	12/00	12/01	YES	
BLOCK 1C UPGRADES (FY01)	3	\$468	NAVSEA	12//2000	C/FP	TBD	05/01	11/02	YES	

D. REMARKS

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

ITEM NO. 120 PAGE NO. 4 UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREM	ENT HIST	ORY AND	PLANNING EXHIBI	T (P-5A)		Weapon System		A. Date:		
								JUNE 2001		
B. APPROPRIATION/BUDGET	ACTIVITY				C. P-1 ITEM NOM	ENCLATURE			SUBHEAD	
Other Procurement, N	lavy									
BA-4 Ordnance Suppo	ort Equipm	nent				Control System BLI: 5	42000		H4VB	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
CCS MK2 OER		` ′								
BLOCK 1C UPGRADES (FY02)	4	\$1,759	NAVSEA		SS/FP	LOCKHEED MARTIN, NE&SS Eagan, MN	12/01	12/02	Yes	
BLOCK 1C UPGRADES (FY02)	4	\$490	NAVSEA		C/FP	TBD	12/01	06/03	Yes	
AN/BSG-1 WLS (FY02)	3	\$667	NAVSEA		SS/FFP	RAYTHEON ELECTRONIC SYSTEMS Portsmouth, RI	06/02	06/03	No	
BREAKOUT BOX (FY02)	13	\$406	NUWC NEWPORT	10//2001	C/FP	TBD	01/02	07/02	No	
D. DEMARKO										

D. REMARKS

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

ITEM NO. 120 PAGE NO. 5

CLASSIFICATION: UNCLASSIFIED P3A **INDIVIDUAL MODIFICATION** MODELS OF SYSTEM AFFECTED: CCS MK2 D0/1A/B to Block 1C TYPE MODIFICATION: UPGRADE MODIFICATION TITLE: SSN COMBAT CONTROL SYSTEMS DESCRIPTION/JUSTIFICATION: This program replaces obsolete equipment and will achieve optimum commonality among submarine combat systems while maximizing the use of commercial electronics and NDI products. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: MILESTONE II 05/96; TECHEVAL 2/00; OPEVAL 5/00; MILESTONE III 10/00 FY 1999 & Pr FY 2000 FY 2001 FY 2002 QTY \$ QTY \$ QTY \$ FINANCIAL PLAN (IN MILLIONS) RDT&E **PROCUREMENT INSTALLATION KITS INSTALLATION KITS - UNIT COST** INSTALLATION KITS NONRECURRING 2 2 **EQUIPMENT** \$2.8 \$4.0 **EQUIPMENT NONRECURRING ENGINEERING CHANGE ORDERS** DATA 2 \$2.8 TRAINING EQUIPMENT SUPPORT EQUIPMENT CCS TEST FACILITY UPGRADE

\$0.4

\$1.2

\$0.0

2

0

1

0

\$2.1

\$4.0

2

\$5.6

\$0.8

\$3.2

\$0.0

OTHER (NON-FMP INSTALL)

INTERIM CONTRACTOR SUPPORT

OTHER

INSTALL COST

TOTAL PROCUREMENT

CLASSIFICATION: UNC	CLAS	SIFIED																			
P3A (Continued)				INDIVIDU	AL N	MODIFICA	TION	(Continued	d)												
MODELS OF SYSTEMS	S AFF	ECTED): _	CCS MK	2 D0	/1A/B to C	CS M	K2 D0 Bloc	k 1C		МО	DIFICATIO	N TIT	TLE: SSN	COV	MBAT CON	TROL	SYSTEMS	S		
INSTALLATION INFORI METHOD OF IMPLEME ADMINISTRATIVE LEAI CONTRACT DATES: DELIVERY DATE:	NTAT DTIM FY	ΓΙΟΝ:	Ма	r-99	- - -	PRODUC FY 2002 FY 2002	Jul-	00	E:	18 - 24	Moi	nths_									
										(\$ in Mil	lions)									1	
Cost:	Prio Qty	r Years		Y 2000		Y 2001		Y 2002					F	Y 2003		Otv					
	Qıy	- P	\$ Qty \$ Qty \$ Qty \$																		
PRIOR YEARS			1	\$2.1	1	\$1.2															
FY 2000 EQUIPMENT							2	\$3.2													
FY 2001 EQUIPMENT																					
FY 2002 EQUIPMENT																					
FY 2003 EQUIPMENT																					
FY 2004 EQUIPMENT																					
FY 2005 EQUIPMENT																					
FY 2006 EQUIPMENT																					
FY 2007 EQUIPMENT																					
TO COMPLETE																					
INSTALLATION SCH FY 2000 & Prior In 1 Out 1	EDUI		0	4 1		2002 3 4 0 0 0 0															

ITEM 120 PAGE 7 CLASSIFICATION: UNCLASSIFIED

P-3A

CLASSIFICATION: UNCLASSIFIED INDIVIDUAL MODIFICATION MODELS OF SYSTEM AFFECTED: AN/BSY-1 to CCS MK2 D0 Block 1C TYPE MODIFICATION: UPGRADE MODIFICATION TITLE: SSN COMBAT CONTROL SYSTEMS DESCRIPTION/JUSTIFICATION: This program replaces obsolete equipment and will achieve optimum commonality among submarine combat systems while maximizing the use of commercial electronics and NDI products. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: MILESTONE II 05/96; TECHEVAL 11/99; OPEVAL 6/00; MILESTONE III 10/00 FY 1999 & Pr FY 2000 FY 2001 FY 2002 QTY \$ QTY \$ QTY \$ QTY \$ FINANCIAL PLAN (IN MILLIONS) RDT&E **PROCUREMENT INSTALLATION KITS** INSTALLATION KITS - UNIT COST INSTALLATION KITS NONRECURRING 3 \$6.4 3 **EQUIPMENT** \$17.0 \$2.0 \$6.7 **EQUIPMENT NONRECURRING** ENGINEERING CHANGE ORDERS DATA TRAINING EQUIPMENT SUPPORT EQUIPMENT OTHER (NON-FMP INSTALL) \$1.2 \$0.4 OTHER OTHER INTERIM CONTRACTOR SUPPORT

3

\$1.6

1

\$2.0

\$19.0

INSTALL COST

TOTAL PROCUREMENT

\$3.7

\$2.0

3 \$3.4

\$6.4

3

CLASSIFICATION: UNC	LAS	SIFIED																		
P3A (Continued)				INDIVIDU	AL N	MODIFICA.	TION	(Continued	d)											
MODELS OF SYSTEMS	AFF	ECTED:		AN/BSY-	1 to	CCS MK2	D0 Bl	ock 1C		M	ODIFICATIO	N TITLE	: SSN C	OMB/	AT CONTR	ROL S	SYSTEMS			
INSTALLATION INFORMETHOD OF IMPLEME ADMINISTRATIVE LEAF CONTRACT DATES: DELIVERY DATE:	NTAT OTIM FY	TION:		r-99 v-00	- - -	PRODUC FY 2002: FY 2002:	Jul-		E:	18 - 24 M	onths_									
2 /	ъ.		_	-1/ 0000	_					(\$ in Million	s)								ı	
Cost:	Qty	or Years \$	Qty	Y 2000 \$	Qty	Y 2001 \$	Qty	Y 2002 \$				FY	2003	(Qty					
PRIOR YEARS	1	\$2.0		\$3.7				*							,					
FY 2000 EQUIPMENT							1	\$1.6												
FY 2001 EQUIPMENT																				
FY 2002 EQUIPMENT																				
FY 2003 EQUIPMENT																				
FY 2004 EQUIPMENT																				
FY 2005 EQUIPMENT																				
FY 2006 EQUIPMENT																				
FY 2007 EQUIPMENT																				
TO COMPLETE																				
INSTALLATION SCH FY 2000 & Prior In 3 Out 3	EDUI	FY 2	2001 3 0 0	4 1 0 1	0	2002 3 4 0 0 0 0														

P-3A
CLASSIFICATION: UNCLASSIFIED ITEM 120 PAGE 9

CLASSIFICATION: UNCLASSIFIED INDIVIDUAL MODIFICATION P3A MODELS OF SYSTEM AFFECTED: CCS MK1 to Block 1C TYPE MODIFICATION: UPGRADE MODIFICATION TITLE: SSN COMBAT CONTROL SYSTEMS DESCRIPTION/JUSTIFICATION: This program replaces obsolete equipment and will achieve optimum commonality among submarine combat systems while maximizing the use of commercial electronics and NDI products. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: MILESTONE II 05/96; TECHEVAL 2/00; OPEVAL 3/00; MILESTONE III 10/00 FY 1999 & Pr FY 2000 FY 2001 FY 2002 QTY \$ QTY \$ QTY \$ FINANCIAL PLAN (IN MILLIONS) RDT&E **PROCUREMENT INSTALLATION KITS INSTALLATION KITS - UNIT COST** INSTALLATION KITS NONRECURRING 2 1 **EQUIPMENT** \$6.2 \$2.0 \$2.2 **EQUIPMENT NONRECURRING ENGINEERING CHANGE ORDERS** DATA TRAINING EQUIPMENT SUPPORT EQUIPMENT OTHER (NON-FMP INSTALL) \$0.4 \$0.4 OTHER OTHER INTERIM CONTRACTOR SUPPORT

1

0

\$4.5

\$2.0

\$6.2

INSTALL COST

TOTAL PROCUREMENT

\$1.2

\$0.0

1

\$2.7

\$2.2

ITEM 120 PAGE 10

CLASSIFICATION: UNC	CLAS	SSIFIED)																		
P3A (Continued)				INDIVIDU	JAL I	MODIFICA	TION	(Continued	d)												
MODELS OF SYSTEMS	AFF	ECTED):	CCS MK	(1 to	CCS MK2	D0 Blo	ock 1C			MOI	DIFICATION	N TIT	LE: SSN	COM	IBAT CONTR	OL S	YSTEMS			
INSTALLATION INFORI METHOD OF IMPLEME ADMINISTRATIVE LEAI CONTRACT DATES: DELIVERY DATE:	NTA OTIM FY	TION: E:	Ма	ır-99	<u>-</u> - -	PRODUC FY 2002: FY 2002:	Mar	I LEADTIM 00 01	E:	8 - 24 	Mon	iths_									
							ı		1	(\$ in Mil	llions	s)							1		
Cost:		r Years		Y 2000		FY 2001		Y 2002 \$	04					FY 2003		\$					
	Qty	\$	Qty	\$	\$ Qty \$ Qty \$ Qty \$ \text{Qty} \$ \text{\$ \text{\$ \text{\$ \text{\$ \text{\$ \text{\$ \text{\$ \text{\$ \text{\$ \text{\$ \text{\$ \text{\$ \text{\$ \text{\$ \text{\$ \text{\$ \text{\$ \text{\$ \text{\$ \text{\$ \text{\$ \qq \qq \qq \qq \qq \qq \qq \qq \qq \q																
PRIOR YEARS			1	\$4.5	5 1	\$1.2															
FY 2000 EQUIPMENT							1	\$2.7													
FY 2001 EQUIPMENT																					
FY 2002 EQUIPMENT																					
FY 2003 EQUIPMENT																					
FY 2004 EQUIPMENT																					
FY 2005 EQUIPMENT																					
FY 2006 EQUIPMENT																					
FY 2007 EQUIPMENT																					
TO COMPLETE																					
INSTALLATION SCH FY 2000 & Prior In 1	EDU	<u>FY</u> 1 2		4 1	2																
Out 1	l	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$																			

P-3A
ITEM 120 PAGE 11 CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED INDIVIDUAL MODIFICATION P3A MODELS OF SYSTEM AFFECTED: UPGRADE MODIFICATION TITLE: SSN COMBAT CONTROL SYSTEMS (WLS) DESCRIPTION/JUSTIFICATION: This program provides a cost-effective, timely approach to meeting TLAM-N regeneration requirements and a common launcher interface across all attack submarines maximizing capabilities while minimizing operation, training and supportability costs. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: MILESTONE II 05/97; SDCT 12/00; MILESTONE III 10/01 FY 1999 & Pr FY 2000 FY 2001 FY 2002 QTY \$ QTY \$ QTY \$ QTY \$ FINANCIAL PLAN (IN MILLIONS) RDT&E **PROCUREMENT INSTALLATION KITS INSTALLATION KITS - UNIT COST** INSTALLATION KITS NONRECURRING 3 **EQUIPMENT** \$2.0 **EQUIPMENT NONRECURRING ENGINEERING CHANGE ORDERS** DATA TRAINING EQUIPMENT SUPPORT EQUIPMENT OTHER OTHER **OTHER** INTERIM CONTRACTOR SUPPORT

ITEM 120 PAGE 12

INSTALL COST

TOTAL PROCUREMENT

\$0.0

\$0.0

\$0.0

3

\$2.0

CLASSIFICATION: UNC	CLAS	SIFIED																			
P3A (Continued)				INDIVIDU	JAL N	MODIFICA	NOITA	(Continue	d)												
MODELS OF SYSTEMS	AFF	ECTED):	AN/BSG	-1 WI	EAPON L	AUNC	HING SYS	TYEN	<u>// (WL</u> S)	МО	DIFICATION	N TIT	ΓLE: SSN	CON	IBAT CON	ΓRΟL	SYSTEMS	3		
INSTALLATION INFORM METHOD OF IMPLEME	NTAT	ION:			_																
ADMINISTRATIVE LEAI CONTRACT DATES: DELIVERY DATE:	IMITC	E:						I LEADTIM			Moi	nths									
										(\$ in Mil	lions)										
Cost:		r Years		Y 2000		Y 2001	_	Y 2002					F	Y 2003							
	Qty	\$	Qty	\$	Qty	\$	Qty	\$			1	1 1				Qty	1	1			
PRIOR YEARS																					
FY 2000 EQUIPMENT																					
FY 2001 EQUIPMENT																					
FY 2002 EQUIPMENT																					
FY 2003 EQUIPMENT																					
FY 2004 EQUIPMENT																					
FY 2005 EQUIPMENT																					
FY 2006 EQUIPMENT																					
FY 2007 EQUIPMENT																					
TO COMPLETE																					
INSTALLA <u>TION SCH</u>	EDUL	_E:					_														
FY 2000 & Prior			2001 3	<u> 4 1 </u>		2002 3 4															
' In 0				0 0																	
Out 0				0 0																	
																		P-3A	١		

ITEM 120 PAGE 13

CLASSIFICATION: UNCLASSIFIED																						
P3A		INDIVIDU	AL MO	DIFICA	TION																	
MODELS OF SYSTEM AFFECTED:	BREA	AKOUT BOX	(_	TYPE N	/IODIF	CATION	N:	UPGRA	DE			MODIFIC	CATIC	ON TITLE	≣:	SSN C	OMBA	T CONTRO	OL SYSTEM	//S
DESCRIPTION/JUSTIFICATION:																						
The TOMAHAWK Breakout Box provides e	electric	al access t	o the w	ertical la	aunch	system.	This	facilitates	s the ir	nsertion o	of simu	ulation siç	gnals	for end-to	o-end	calibration	on an	d test.				
DEVELOPMENT STATUS/MAJOR DEVELO	OPME	NT MILES	TONES	S:																		
	FY 1 QTY	999 & Pr \$	FY 2 QTY	2000	FY 2 QTY		FY 2 QTY															
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT							13	\$5.3														
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST							7	\$3.4														
TOTAL PROCUREMENT		\$0.0		\$0.0		\$0.0	13	\$5.3														
								ITEM	120			PAGE 1	4									

CLASSIFICATION: UNC	CLAS	SIFIED																				
P3A (Continued)				INDIVIDU	IAL N	ODIFICA	TION	(Continued	d)													
MODELS OF SYSTEMS	AFF	ECTED	: .	BREAK	OUT E	30X					МО	DIFICATION	N TIT	LE: <u>S</u>	SN CO	MBAT CC	ONTRO	L SYSTE	ИS			
INSTALLATION INFORM	NTA	ΓΙΟΝ:	AIT	=																		
ADMINISTRATIVE LEAI CONTRACT DATES: DELIVERY DATE:	FY	E: 2001: 2001:			-	PRODU FY 2002 FY 2002	: Jan		E:	6	Mor	nths										
DELIVERT DATE.	гі	2001.	IN/F	1	_	F1 2002	. <u>Jui-</u>	02		(\$ in Milli	ons)											
Cost:		r Years		Y 2000		Y 2001		Y 2002		•			F	Y 2003								
	Qty	\$	Qty	\$	Qty	\$	Qty	\$		T T		· ·		1	-	Qty		1		1	1	
PRIOR YEARS																						
FY 2000 EQUIPMENT																						
FY 2001 EQUIPMENT																						
FY 2002 EQUIPMENT							7	\$3.4														
FY 2003 EQUIPMENT																						
FY 2004 EQUIPMENT																						
FY 2005 EQUIPMENT																						
FY 2006 EQUIPMENT																						
FY 2007 EQUIPMENT																						
TO COMPLETE																						
INSTALLATION SCH	EDUI	_E:																				
FY 2000			2001		FY	2002	1															
& Prior		1 2	3	4 1	2	3 4																
'In 0		0 0	0	0 0	0	0 7																
Out 0		0 0	0	0 0	0	0 7																
																		P-	3A			

ITEM 120 PAGE 15

CLASSIFICATION: UNCLASSIFIED INDIVIDUAL MODIFICATION MODELS OF SYSTEM AFFECTED: TYPE MODIFICATION: **UPGRADE** MODIFICATION TITLE: SSN COMBAT CONTROL SYSTEMS 16-TUBE TWS DESCRIPTION/JUSTIFICATION: The Tactical Weapons Simulator Upgrade expands the capability of the hardware to allow test of all weapon launchers at the same time. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FY 1999 & Pr FY 2000 FY 2001 FY 2002 QTY \$ QTY \$ QTY \$ QTY \$ FINANCIAL PLAN (IN MILLIONS) RDT&E **PROCUREMENT INSTALLATION KITS INSTALLATION KITS - UNIT COST** INSTALLATION KITS NONRECURRING **EQUIPMENT EQUIPMENT NONRECURRING** ENGINEERING CHANGE ORDERS DATA TRAINING EQUIPMENT LAND BASED FACILITY EQUIPMENT OTHER OTHER OTHER INTERIM CONTRACTOR SUPPORT INSTALL COST TOTAL PROCUREMENT \$0.0 \$0.0 \$0.0 0 \$0.0

ITEM 120 PAGE 16

CLASSIFICATION: UNG	CLAS	SIFIED		INDIVIDI		10015104	TION	(0													
P3A (Continued)				INDIVIDU	JAL N	MODIFICA	HON	(Continue	d)												
MODELS OF SYSTEMS	S AFF	ECTED	: .	16-TUBE	TW	S					МО	DIFICATIO	N TIT	LE: SSN	CON	IBAT CON	TROL	SYSTEMS	1		
INSTALLATION INFORI METHOD OF IMPLEME ADMINISTRATIVE LEA CONTRACT DATES: DELIVERY DATE:	NTAT DTIM FY	ΓΙΟΝ: Ε: 2001:				FY 2002	:	I LEADTIM				nths_									
	ι		_				_			(\$ in M	illions	s)									
Cost:	Prio Qty	r Years	Qty	Y 2000	Qty	Y 2001	_	Y 2002					F	Y 2003		Otv					
	Qıy	\$	Qly	\$	Qty	\$	Qty	\$							1	Qty	1				
PRIOR YEARS																					
FY 2000 EQUIPMENT																					
FY 2001 EQUIPMENT																					
FY 2002 EQUIPMENT																					
FY 2003 EQUIPMENT																					
FY 2004 EQUIPMENT																					
FY 2005 EQUIPMENT																					
FY 2006 EQUIPMENT																					
FY 2007 EQUIPMENT																					
TO COMPLETE																					
INSTALLATION SCH FY 2000 & Prior In 0 Out 0	EDUI	<u>FY</u> 1 2	0	4 1 0 0	2	0 0												P-3A			

ITEM 120 PAGE 17 CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED																						
P3A		INDIVIDUA	AL MO	DIFICA	TION																	
MODELS OF SYSTEM AFFECTED:	MK2	BLOCK 2			_	TYPE M	ODIF	CATION	۸:	UPGRA	DE			MODIFIC	CATIC	ON TITLE	≣:	SSN C	OMBA	T CONTRO	DL SYSTEM	1S
DESCRIPTION/JUSTIFICATION:																						
This program will provide upgrades for wea	pon la	aunching ha	ırdwar	e and so	oftware	Э.																
DEVELOPMENT STATUS/MAJOR DEVELO	OPME	NT MILEST	ONES	S:	MILE	STONE	III 07	/05; CON	ITRAC	CT AWAF	RD 12	/05										
	FY 1 QTY	999 & Pr \$	FY 2 QTY	2000	FY 2 QTY		FY 2 QTY															
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT																						
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST																						
TOTAL PROCUREMENT		\$0.0		\$0.0		\$0.0	0	\$0.0														
								ITEM	120			PAGE 1	8									

CLASSIFICAT	ION: UNC	LAS	SIFIED)																			
P3A (Continue	ed)				INDI	IVIDU	AL N	ODIFIC	ATION	1 (Co	ontinued	l)											
MODELS OF S	SYSTEMS	AFF	ECTE	D:	MK	2 BLC	OCK :	2						МО	DIFICATIO	N TIT	LE: SSN	COM	IBAT CONT	ΓROL	SYSTEMS		
INSTALLATION METHOD OF I ADMINISTRAT CONTRACT D DELIVERY DA	N INFORM IMPLEMEN TIVE LEAD DATES: ATE:	MATIONTAT OTIMI FY FY	ON: TON: E: 2001: 2001:				- - -	PROD FY 200 FY 200	UCTIO)2:)2:	N LE	EADTIME	≣:	1	8 Mo	nths								
											-		(\$ in	Million	s)								
Cost:			r Years		FY 20			Y 2001		FY 2						F	Y 2003		0.				-
		Qty	\$	Qty	1	\$	Qty	\$	Qty	/	\$		1	1	l				Qty			1	
PRIOR YEAR	RS																						
FY 2000 EQL	JIPMENT																						
FY 2001 EQL	JIPMENT																						
FY 2002 EQL	JIPMENT																						
FY 2003 EQL	JIPMENT																						
FY 2004 EQL	JIPMENT																						
FY 2005 EQL	JIPMENT																						
FY 2006 EQL	JIPMENT																						
FY 2007 EQL	JIPMENT																						
TO COMPLE	TE																						
INSTALLAT In Out	FY 2000 & Prior 0 0	EDUL	1 2 0 0	0	0	0	0	2002 3 4 0 0)														

ITEM 120 PAGE 19

UNCLASSIFIED

02/100// 10/11/011/			0								
		В	UDGET ITE	M JUSTIFIC	ATION SHEET			DATE:			
				P-40					JUNE	E 2001	
APPROPRIATION/BUD	GET ACTIVI	TY				P-1 ITEM	NOMENCLATURE				
OTHER PROCURE	EMENT, NA	VY/BA-	4 Ordnance	Support Eq	uipment	SUBMA	RINE ASW SUP	PORT EQUI	PMENT BL1:	: 543100 SB	HD: 846A
Program Element for Co	ode B Items:					Other Rel	ated Program Eleme	ents			
	Prior Years	ID Code	FY 2000	FY 2001	FY 2002						
QUANTITY											
COST (In Millions)			\$4.1	\$3.9	\$5.9						
SPARES COST (In Millions)											
PROGRAM DESCRIF This line item procure requirements arise as and safety modification	es modification	ns and im	provements to a	odified weapons	and sensors and thei						

This line funds modifications and improvements in the following categories:

6A002 - The Submarine Torpedo Tube Support category funds in-service support and alteration procurements for all submarine torpedo tubes ejection pumps, handling systems, and countermeasure launchers. Recurring efforts are CASREP support to the fleet units, emergency ORDALTs, Bore Gage/Test Equipment Procurement, Engineering Change Proposal support and prototype ORDALTs. ORDALTs kits are procured to correct significant deficiencies in equipment affecting personnel safety, ship safety and system performance.

6A5IN - Installing agents will be various Naval Shipyards and contractors. All installations will be on SSN 688/21 Class Submarines.

P-1 SHOPPING LIST

ITEM NO. 121 PAGE NO. 1

CLASSIFICATION:

UNCLASSIFIED

DD Form 2454, JUN 86

UNCLASSIFIED

	WEAPONS SYSTEM (P-5	COST A	NALYSIS			Weapon Sy	/stem							DATE: JUNE	2004
Other I	PRIATION/BUDGET ACTIVITY Procurement, Navy Ordnance Support Equipment					ID Code		OMENCLATU			PMENT B	LI: 54310	00 SBHI	•	2001
			TOTAL COS	T IN THOUS	SANDS OF DC	LLARS	•								
COST	ELEMENT OF COST	ID Code	Prior Years Total Cost	Quantity	FY 2000 Unit Cost	Total Cost	Quantity	FY 2001 Unit Cost	Total Cost	FY 2002 Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	SUBMARINE (N87)		Total Cool	Quantity	- CTIII	Total Goot	Quantity		Total Good	Quantity	- C11111 COCK	Total Cook	Quantity	O'III OOOL	Total Cool
6A002	SUB TORPEDO TUBE SUPPORT O/A PROTOTYPE/ECP MATERIAL 2J COG MATERIAL	А				261 223			265 227			852 230			
	TEST EQUIPMENT BORE GAGE TEST FACILITY EQUIPMENT MISC. TEST EQUIPMENT					260 322 258			260 340 250			270 1250 669			
	TEP ORDALTs/TRIDS O/A 16264 TEP QUIET 1 TPES FIRING VALVE			2	409.5	819	2	416.0	832	2	425.0	850			
	TOTAL EQUIPMENT					2,143			2,174			4,121			
6A5IN	INSTALLATION OF EQUIPMENT (FMP)					1,990			1,767			1,814			
						4,133			3,941			5,935			

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

ITEM NO. 121 PAGE NO. 2

UNCLASSIFIED CLASSIFICATION:

BUDGET PROCUREN	IENT HIST	ORY AND	PLANNING EXHIB	IT (P-5A)		Weapon System		A. DATE		
									JUNE 200	1
B. APPROPRIATION/BUDGET					C. P-1 ITEM NOM	ENCLATURE			SUBHEAD	
Other Procuremer	nt, Navy									
BA-4: ORDNANCE	SUPPO	RT EQU	IPMENT			ASW SUPPORT EQUIPME	NT BL1:		846A	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 00										
SUB TORPEDO TUBE O/A 16264 TEP QUIET 1	2	409.5	NAVSEA		WR	NUWC NEWPORT, RI	JAN 00	OCT 00	YES	
FY 01										
SUB TORPEDO TUBE O/A 16264 TEP QUIET 1	2	416	NAVSEA		WR	NUWC NEWPORT,RI	JAN 01	OCT 01	YES	
FY 02										
SUB TORPEDO TUBE O/A 16264 TEP QUIET 1	2	425	NAVSEA		WR	NUWC NEWPORT,RI	JAN 02	OCT 02	YES	
D. REMARKS										

P-1 SHOPPING LIST Classification: DD Form 2446-1, JUL 87

UNCLASSIFIED ITEM NO. PAGE NO. 3 121

CLASSIFICATION: UNCLASSIFIED **JUNE 2001** INDIVIDUAL MODIFICATION MODELS OF SYSTEM AFFECTED: SUBMARINE ASW SUPPORT TYPE MODIFICATION: ORDALT MODIFICATION TITLE: SUB TORPEDO TUBE ORDALT EQUIPMENT DESCRIPTION/JUSTIFICATION: PROJECT UNIT: ORDALT 16264 SUBMARINE TORPEDO EJECTION PUMP MK 5 MODS 15 THROUGH 20 UPGRADE REDUCTS THE DETECTION AND CLASSIFICATION OF THE SSN 688 CLASS SUBMARINE WEAPON LAUNCH SIGNATURE. IO = 37 DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FY 1999 & Prior FY 2000 FY 2001 FY 2002 QTY \$ QTY \$ QTY \$ QTY \$ FINANCIAL PLAN (IN MILLIONS) RDT&E **PROCUREMENT INSTALLATION KITS INSTALLATION KITS - UNIT COST** INSTALLATION KITS NONRECURRING **EQUIPMENT** 2 8.0 5.7 0.8 0.9 **EQUIPMENT NONRECURRING ENGINEERING CHANGE ORDERS** DATA TRAINING EQUIPMENT SUPPORT EQUIPMENT OTHER OTHER OTHER INTERIM CONTRACTOR SUPPORT 2 INSTALL COST 21 10.8 2.0 2 1.8 1.8

TOTAL PROCUREMENT

16.5

2.8

2.6

2.7

ITEM 121 PAGE 4 CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNO	CLAS	SIFIED												JU	NE 2001		
P3A (Continued)				INDIVIDU	AL N	ODIFICA	TION	(Continued									
MODELS OF SYSTEMS	AFF		SUBMA P EQUIP		V	MOE	DIFIC	ATION TITLE:		SUB TORPEDO TUBE ORDALT 16264				-			
INSTALLATION INFORM METHOD OF IMPLEME ADMINISTRATIVE LEAD	NTA	ΓΙΟΝ:			-	PRODUC	CTION	N LEADTIME:		9 MONTHS							
CONTRACT DATES:		2001:	Jan-01			FY 2002:		Jan-02									
DELIVERY DATE:	FY	2001:	Oct-01	•		FY 2002:		Oct-02		<u></u>							
										\$ in Millions)							
Cost:		ior Years		2000		Y 2001		FY 2002		FY 2003							
	Qty	\$	Qty	\$	Qty	\$	Qty	\$			Qt	/ 				1	
PRIOR YEARS	21	10.8															
FY 2000 EQUIPMENT			2	2.0													
FY 2001 EQUIPMENT					2	1.8											
FY 2002 EQUIPMENT							2	1.8									
FY 2003 EQUIPMENT																	
FY 2004 EQUIPMENT																	
FY 2005 EQUIPMENT																	
FY 2006 EQUIPMENT																	
FY 2007 EQUIPMENT																	
TO COMPLETE																	
INSTALLATION SCH		FY 2				2002]										
& Prior In 23	0	2 <u>3</u> 1 1	<u>4</u> 0	0	1	3 4 1 0											
Out 23	0	1 1	0			1 0											
	ı I <u> </u>	·					1										
													P-3A				
						I	TEM	121	PAC	≣ 5					CATION	: UNC	LASSIFIED

UNCLASSIFIED

		В	UDGET ITE	M JUSTIFIC	ATION SHEE	ΞT			DATE:					
				P-40						June	2001			
APPROPRIATION/BU	DGET ACTIVI	TY					P-1 ITEM NON	MENCLATURE						
OTHER PROCUR	EMENT, NA	VY BA	-4, ORDNAN	ICE SUPPO	RT EQUIPME	NT	SURFACE ASW SUPPORT EQUIPMENT, (544900 & 544905) 74							
Program Element for C	ode B Items:						Other Related	Program Eleme	ents					
	Prior	ID									То			
	Years	Code	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	Total		
QUANTITY														
COST														
(In Millions)			\$6.0	\$13.1	\$3.2							\$22.3		
SPARES COST														
(In Millions)												\$0.0		

This line item provides funding to procure Reliability, Maintainability and Availability (RM&A) and Safety modifications through the Ordnance Alteration (ORDALT) process to in-service ASW Fire Control, Surface Vessel Torpedo Tubes and related support and test equipment. These requirements arise as a result of evaluation, testing and Fleet use of existing, new or modified ASW weapons and/or related systems and subsystems. Included in this line item are all related procurements for training and simulation equipment required for the life cycle support efforts of this equipment. ORDALT quantities are highly variable.

Cost Code 6B001 provides funding for Ordnance Alteration (ORDALT) kits for the ASW Underwater Fire Control System (UFCS) MK116 MOD4 and the Control Panel MK309 MOD2. Provides material support for the UFCS MK116 and Control Panel MK309 shoresite laboratory at NSWC Dahlgren. Procurements will ensure laboratories are at Fleet baseline configurations. Provides funding for equipment upgrades for the MK331 Torpedo Setting Panel and the Torpedo Presetter Test Set MK432 MOD4/MOD6.

Cost Code 6B004 provides funding for Surface Vessel Torpedo Tubes (SVTT) MK32 and ancillary equipment for testing, training and maintainability. FY02-03 ORDALT procurements include: SVTT ORDALT (15713, 16412, 16413, 16564, 16627, 16628, 16678, 16717); Control Box improvement ORDALT (TBD); Barrel Ready Circuit Rewiring ORDALT (TBD); Advanced Torpedo Ready Breach (ATTRB): Launcher Train Drive Switch Rewiring ORDALT (TBD): Torpedo Loading Tray ORDALT (15714): Air Charging Panel ORDALT (TBD): and Torpedo Test Shape (TTS) Torpedo MK54 Compatibility ORDALT (TBD). ORDALT procurements are highly variable, dependent on shipboard configurations and equipment age. Installations are highly variable and are based on pier-side availabilities and ship homeports. Procure Surface Vessel Torpedo Tubes (SVTT) shoresite laboratory equipment for Launcher System Facilities (LSF). LSFs are used to simulate shipboard conditions for over-the-side torpedo launchers in the trouble shooting of Fleet reported problems, as well as for the development of the required ORDALTs.

- (1) Installation agent: All ORDALTs are installed via AIT.
- (2) Installations will be accomplished over the remaining fiscal years, during TYCOM scheduled pier-side availabilities.
- (3) End items are variable, dependent on shipboard configuration and equipment that affect shoresites: NUWC Newport, UDLP, and Fleet/Service School Commands.

Cost Code 6B005 provides fully remanufactured/upgradedSVTT systems to the FFG-7 and DDG-51 Class ships at pre-determined intervals, based on the life of the ship. This program will also provide long-lead launchers and other components to support upgrades, CASREP resolution and ISEA engineering requirements.

P-1 SHOPPING LIST

PAGE 1

CLASSIFICATION:

UNCLASSIFIED

DD Form 2454, JUN 86

ITEM NO. 122

BUDGET ITEM JUSTIFICATION SHEET	DATE:	
P-40	June 2001	
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT, NAVY BA-4, ORDNANCE SUPPORT EQUIPMENT	SURFACE ASW SUPPORT EQUIPMENT, (544900 & 544905)	746B
Cost Code 6B830 provides the necessary engineering support funds to cover the associated ILS elemen	nts, ECP reviews, and engineering audits for SVTT and Fire Control ORDALT production	on.
Cost Code 6B860 provides the in-house Navy acceptance test and evaluation funding required for the sa	afety and quality assurance testing of all Fire Control ORDALTS.	
Cost Code 6B900 provides the necessary funding for consulting services required for all scheduling of C requirements.	DRDALT production test and installation in conjunction with operation, safety and environ	onmental
Cost Code 6B5IN funds installation of all FCS/SVTT ORDALTs and Flexible Universal Stowage System ORDALT AIT pier-side installations are variable and contingent on TYCOM scheduling.	(FUSS) under the Fleet Modernization Program (FMP).	

 P-1 SHOPPING LIST
 CLASSIFICATION:

 DD Form 2454, JUN 86
 ITEM NO. 122
 PAGE 2

UNCLASSIFIED

P-5		NALYSIS			Weapon Syster	n							DATE:	e 2001
N/BUDGET ACTIVITY ment, Navy NCF SUPPORT FOUIPMENT					ID Code			RE/SUBHEAD	T FOUIP	MENT (544	900 & 54490)5) 746B	Jun	e 2001
NOT GOLL ONLY ENGINEERING		TOTAL COS	T IN THOUS	ANDS OF DO				7.011 001 1 01		, (011	000 0 0 1 100	,0,1102		
ELEMENT OF COST	ID Code		0 11				FY 2001		.	FY 2002		0 11	FY 2003	
		Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cos
CONTROL ORDALTs	А				1,525			1,693			458			
EDO TUBE ORDALTS	A				1,240			1,410			418			
UPGRADES	А							7,000						
UCTION ENGINEERING ORT	A				393			277			60			
CONTROL ACCEPTANCE T&E	А				90			115			30			
ULTING SERVICES	А				437			416			30			
NSTALLATION OF EQUIPMENT RE CONTROL/SVTT	А							(2,236) 75 2,161			(2,217) 255 1,962			
	ELEMENT OF COST CONTROL ORDALTS EDO TUBE ORDALTS UPGRADES UCTION ENGINEERING ORT CONTROL ACCEPTANCE T&E ULTING SERVICES	ELEMENT OF COST ELEMENT OF COST ID Code CONTROL ORDALTS A EDO TUBE ORDALTS A UPGRADES A UCTION ENGINEERING ORT CONTROL ACCEPTANCE T&E A USTALLATION OF EQUIPMENT A	ELEMENT OF COST ELEMENT OF COST ID Code Prior Years Total Cost CONTROL ORDALTS A EDO TUBE ORDALTS A JPGRADES A JUCTION ENGINEERING ORT CONTROL ACCEPTANCE T&E A JUCTING SERVICES A JUCTING SERVICES A JUCTING SERVICES A	ELEMENT OF COST ELEMENT OF COST ID Code Prior Years Total Cost Quantity CONTROL ORDALTS A EDO TUBE ORDALTS A JPGRADES A JUCTION ENGINEERING ORT CONTROL ACCEPTANCE T&E A JUCTING SERVICES A JUCTION SERVICES A JUCTION SERVICES A JUCTION SERVICES A JUCTION SERVICES A JUCTION SERVICES A JUCTION SERVICES A JUCTION SERVICES A JUCTION SERVICES A JUCTION SERVICES A JUCTION SERVICES A JUCTION SERVICES A	ELEMENT OF COST ID	TOTAL COST IN THOUSANDS OF DOLLARS TOTAL COST IN THOUSANDS OF DOLLARS Prior FY 2000	TOTAL COST N THOUSANDS OF DOLLARS TOTAL COST N THOUSANDS OF DOLLARS TOTAL COST N THOUSANDS OF DOLLARS TOTAL COST Quantity Unit Cost TOTAL COST Quantity PROPERTY OF TOTAL COST QUANTITY PROPERTY OF TOTAL COST PROPER	TOTAL COST IN THOUSANDS OF DOLLARS TOTAL COST IN THOUSANDS OF TOTAL C	CE SUPPORT EQUIPMENT A SURFACE ASW SUPPORT EQUIPMENT A SURFACE ASW SUPPORT EQUIPMENT A SURFACE ASW SUPPORT EQUIPMENT A SURFACE ASW SUPPORT	TOTAL COST IN THOUSANDS OF DOLLARS TOTAL COST IN THOUSANDS OF DOLLARS TOTAL COST IN THOUSANDS OF DOLLARS TOTAL COST IN THOUSANDS OF DOLLARS TOTAL COST TOTAL COST IN THOUSANDS OF DOLLARS TOTAL COST IN THOUSANDS OF TOT	COMBRIDE TOTAL COST IN THOUSANDS OF DOLLARS TOTAL COST TOTA	TOTAL COST IN THOUSANDS OF DULARS TOTAL COST IN THOUSANDS OF DULARS TOTAL COST IN THOUSANDS OF DULARS TOTAL COST TOTAL COST IN THOUSANDS OF DULIARS OF DULIARS TOTAL COST IN THOUSANDS OF DULIARS		

ITEM NO. 122 PAGE 3

UNCLASSIFIED

		Е	BUDGET ITE	M JUSTIFIC	ATION SHEE	ĒΤ			DATE:			
				P-40						June	2001	
APPROPRIATION/BUE	DGET ACTIVI	TY					P-1 ITEM NOM	MENCLATURE				
OTHER PROCURE BA 4 - ORDNANC			PMENT					BLI: 545500				
Program Element for C	ode B Items:						Other Related	Program Eleme	nts			
	Prior	ID									То	
	Years	Code	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	Total
QUANTITY												
COST												
(In Millions)			\$6.3	\$6.8	\$6.0						Cont.	Cont.
SPARES COST												
(In Millions)												\$0.0

Funding provides for the procurement of training range and shore support equipment. Test and Evaluation (T&E), and Acoustic Trial range equipment, and weapon system and test support equipment. Equipment procured includes instrumentation for Fleet Operational Readiness Accuracy Check Sites (FORACS) and Naval Undersea Warfare Center, Keyport (NUWC, KPT) T&E ranges, support equipment required to conduct Fleet exercises at Navy ASW Training ranges, Weapon System Accuracy Trials (WSAT) test, Surface Ship Radiated Noise Measurement (SSRNM), Sensor Accuracy Test (SAT), Ship ASW Readiness/Effectiveness Measuring (SHAREM) and Sonar Accustic Target Source (SATS). Training and T&E ranges supported include Southern California Offshore Range (SCORE), Barking Sands Tactical Underwater Range/Barking Sands Underwater Range Extension (BARSTUR/BSURE), Atlantic Underwater Test and Evaluation Center (AUTEC), Atlantic Fleet Weapons Training Facility (AFWTF) (St. Croix), Nanoose, Quinault and Dabob Bay. FORACS ranges supported include Andros Island, Southern California, and Hawaii.

6C001 - Weapon System and Test Support Equipment:

Funding provides for the procurement of high power ESM targets, range communication systems, replacement of obsolete range computers, ship auto-tracking system. Surface Ship Acoustic Range Components, Sensor Accuracy Test (SAT) equipment, Ship ASW Readiness/Effectiveness Measuring (SHAREM), upgraded ship position tracking system and upgrade hardware for Sonar Acoustic Target Source (SATS) as a test and calibration target for the SQQ-89I, SQS-53C, BQQ-5E and BSY-1 sonars.

6C002 - Training/Test & Evaluation Range Equipment:

DD Form 2454, JUN 86

Funding provides for the procurement of shipboard underwater tracking equipment for the existing ranges as well as the new Shallow Water Training Ranges on both coasts and in Hawaii, shop special purpose pinger test equipment, and the associated cables/mounting hardware required to track ships and submarines conducting Fleet exercises at the Navy training ranges. NAVSEA provides all of the Navy Underwater Ranges with this tracking equipment support, because the equipment must be compatible with NAVSEA designed and built underwater vehicles (i.e. ships, submarines, torpedoes, mines and sonars).

Funding provides for replacement and modernization of the following NUWC, KPT T&E range systems: Acoustic Noise Measuring Recording and Analysis System, Above Water Tracking System, RF and underwater communications equipment, and range data gathering equipment.

Production support services will fund support efforts performed by a field activity or contractor during the production phase of these projects.

The Unmanned Seaborne Targets Program provides surface seaborne targets and target electronic augmentation systems for weapons systems test and evaluation and Fleet surface to surface and air to surface training. Target requirements include the High Speed Mobile Sea Target (HSMST), the MK42 Mod 0 Floating At Sea Target (FAST) and the High Speed Anti-Radiation Missile/Infared Missile (HARM/IR) Target, Towed Trimaran, William Sled, and Improved Surface Towed Target (ISTT). Inventory objective changes based on Fleet usage. Procurement of replacement targets for the QST-35 is planned to begin on FY05. VR001 - QST 35 Replacement

VR003, VR004 - The fleet also requires low cost expendable moving targets and stationary targets towed to the operating site for surface, aerial gunnery and missile shots. Trimarans, HARM/IR target, Williams Sleds, and ISTT with tow lines and retrieval systems meet these requirements. The FAST is a free floating radar reflective target developed as an open ocean training device for bombing and surface gunnery exercises. This program also procures seaborne target augmentation systems which include transponders(i.e. transmitters/receivers), radar reflectors. RF emitters and ground support equipment (GSE). Various electronic components provide the interface for the target control systems with the control stations/facilities for drone operations. RF emitters and radar reflectors enhance target threat replication and provide the required stimulus for anti-surface/radar weapons systems.

VR005 - The Fleet requires High Speed Maneuverable Seaborne Targets (HSMST) MK1.

VR006 - SDST (Ship Deployable Surface Target) will be used to support ship training and T&E exercises. This target will support training requirements of deploying ships, aircraft and surface gunnery requirements.

P-1 SHOPPING LIST

ITEM NO. 123 PAGE NO. 1 CLASSIFICATION:

UNCLASSIFIED

	WEAPONS SYSTEM	COST AN	IALYSIS			Weapon Sy	/stem							DATE:	2024
	RIATION/BUDGET ACTIVITY rocurement, Navy					ID Code	P-1 ITEM N	OMENCLATU	RE/SUBHEAL	D				June SUBHEAD	2001
	RDNANCE SUPPORT EQUIPMENT						ASW Rai	nge Suppor	t Equipme	nt BLI: 54	5500			846C	
			TOTAL COS	T IN THOUS	SANDS OF DO	LLARS	1.	•	• • •						
COST	ELEMENT OF COST	ID Code	Prior Years Total Cost	Quantity	FY 2000 Unit Cost	Total Cost	Quantity	FY 2001 Unit Cost	Total Cost	Quantity	FY 2002 Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	N86														
	EQUIPMENT														
6C001	Weapon System & Test Support Equip.					880			899			887			
6C002	Training/Test & Evaluation Range Equip.					256			228			173			
6C820	Consulting Services					28			24			25			
6C830	Production Engineering					86			79			79			
6C850	Product Improvement					64			67			68			
	SEABORNE TARGETS														
VR001	QST 35 REPLACEMENT														
VR003	TOWED TARGETS					303			602			142			
VR004	INSTRUMENTAL					383			75			0			
VR005	HSMST			5	141	705	5	144	720			450			
VR830	PRODUCTION ENGINEERING					174			178			194			
VR900	CONSULTING SERVICES					128			156			100			
VR970	INTEGRATED LOGISTICS SUPPORT					172			166			161			
	N87														
	EQUIPMENT														
6C001	Weapon System & Test Support Equip.					775			826			855			
6C002	Training/Test & Evaluation Range Equip.					1,921			2,342			2355			
6C820	Consulting Services					62			70			75			
6C830	Production Engineering					201			221			239			
6C850	Product Improvement					154			188			209			
						6,292			6,841			6,012			
DD FORM	2446, JUN 86	P-1 SH	OPPING LIST	_		PAGE NO.						CLASSIFICA	ATION:		

DD FORM 2446, JUN 86 P-1 SHOPPING LIST PAGE NO. 2 CLASSIFICATION:

ITEM NO. 123

UNCLASSIFIED

BUDGET PROCURE	VENT HIST	ORY AND	PLANNING EXHIB	IT (P-5A)		Weapon System		A. DATE		
									June 200	1
B. APPROPRIATION/BUDGET					C. P-1 ITEM NOM			l.	SUBHEAD	
Other Procurement,	Navy	BA-4 OF	RDNANCE SPT E	QUIPMENT	ASW RANG	SE SUPPORT EQUIPM	IENT E			
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY00 HSMST	5	141	NAVSEA	Jul 00	C/FP	TBD	Sep 00	Jan 01	YES	
FY01 HSMST	5	144	NAVSEA	Apr 01	C/FP	TBD	Jun 01	Oct 01	YES	
D. REMARKS										
D. REMARKS										

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

ITEM NO. 123 PAGE NO. 3 UNCLASSIFIED

UNCLASSIFIED

		Е	BUDGET ITE	M JUSTIFICA	ATION SHEE	Т			DATE:					
				P-40						June	2001			
APPROPRIATION/BUI	DGET ACTIVIT	ΓΥ					P-1 ITEM NOM	IENCLATURE						
OTHER PROCURE	EMENT, NA	VY/BA-4					EXPLOSIVE ORDNANCE DISPOSAL EQUIPMENT/BLI#5509							
Program Element for C	ode B Items:						Other Related Program Elements							
0603654N							0204424N							
	Prior Years	ID Code	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total		
QUANTITY														
COST (In Millions)		Α	\$8.8	\$7.5	\$9.4									
SPARES COST (In Millions)			\$4.3	\$4.3	\$4.8									

The Navy is responsible for the management and execution of the Joint Service EOD unified procurement system as assigned by DOD Directive 5160.62. All procurement of EOD tools and equipment, both initial outfitting and replenishment, for all military services is made by the Navy. The Navy provides all procurement services. There is an annual average of 300 procurement actions for this material. Each military service funds it's own hardware.

VN005-MATERIAL FOR NAVAL SCHOOL EXPLOSIVE ORDNANCE DISPOSAL (NAVSCOLEOD): Provides for inert ordnance material to NAVSCOLEOD in support of Joint Service training.

VN034-INITIAL OUTFIT EOD NR: EOD Naval Reserve Mobile Units/Detachments require initial outfitting of equipment on the Allowance List as approved by CNO.

VN057-MK 32/35 ACCESSORY SET: Hardware which allows for mine neutralization mission capabilities for MK 7 and MK 4 MMS.

VN059-EOD MOBILE UNIT ALLOWANCE: Initial outfitting of tools/equipment for increased allowances on the CNO approved Allowance List.

VN065-MK 4 & MK 7 MMS VERY SHALLOW WATER MINE COUNTERMEASURES (VSWMCM): This funding supports initial outfitting of hardware and animal behaviors required for the subject systems to operate in a limited hostile environment and enhance system survivability.

VN066-MK 4 & MK 7 MMS VSW ACCESSORY SET-Procurement of enhanced hardware design which allows for the neutralization of mines in the VSW region which are subject to tidal surge and elevated currents.

VN067-REMOTE ORDNANCE NEUTRALIZATION SYSTEM (RONS), MK3 MOD 0: RONS consists of a remote controlled vehicle and operator control station (OCS). RONS complements/augments the EOD Technician when performing reconnaissance, access, render-safe, "pick up and carry away" (PUCA), and disposal during extremely hazardous EOD missions.

VN068-MK 8 MMS: An advanced force system which conducts very shallow water minefield exploration and reconnaissance in support of amphibious operations. MK 8 will operate in low visibility and detect all mine types; buried, proud and moored. This funding supports initial outfitting of all system hardware and components. The following DT/OT is completed/scheduled DT-I 11/98 to 8/99; OT-I 9/99; DT II 11/99 to 10/00; OT II 10/00 to 11/00.

P-1 SHOPPING LIST

ITEM NO. 124

PAGE NO. 1

CLASSIFICATION:

UNCLASSIFIED

UNCLASSIFIED

		1
BUDGET ITEM JUSTIFICATION SHEET		DATE:
P-40 CONTINUATION	ID 4 ITEM NOMENOLATUDE	June 2001
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	FOR FOLURIMENT/DLL//FF00
OTHER PROCUREMENT, NAVY/BA-4	<u> </u>	EOD EQUIPMENT/BLI#5509
VN069-MMS ALLOWANCE: Initial outfitting of tools/equipment including veterinary equipment for increased	allowances of all Fleet MMS in	accordance with CNO approved allowance list.
VN070-SMALL CALIBER DEARMER: A tool that provides the EOD technician the capability to cut, se orientations. An Abbreviated Acquisition Program (AAP) with no formal DT/OT required. System testing 10/		cealed firing devices and booby traps in various challenging
VN071-STANDOFF DISRUPTER(UXO): Provides the EOD technician the capability to disrupt or render readily be triggered by an EOD technician near or in close proximity to the munitions. An Abbreviated Acquise		
VN072-STANDOFF DISRUPTER(IED): Provides the EOD technician the capability to disrupt Improvise technicians to engage IEDs from a protective posture. An Abbreviated Acquisition Program (AAP) with no for		
VN073-EOD INCIDENT SITE C4 (ISC4) SYSTEM: A system that provides voice and image transmission EOD missions. An Abbreviated Acquisition Program (AAP) with no formal DT/OT required. Preliminary testi		
VN074-LARGE IMPROVISED EXPLOSIVE DEVICE (IED) ACCESS & DISRUPTION: Provides the EOI Acquisition Program (AAP) with no formal DT/OT required. System testing 12/00 to 3/02.	D technicians an effective and	reliable capability to neutralize large IEDs. An Abbreviated
VN830-PRODUCTION ENGINEERING: Review all technical data packages prior to procurement and provi system. Provides production engineering support for all EOD and MMS production contracts.	de procurement instruction to th	e procuring activity in support of the EOD unified procurement
VN850-PRODUCT IMPROVEMENT: Engineering services to improve EOD/MMS Systems/Equipment in pro	oduction to improve maintainabil	lity, utilize current technology and decrease cost.
VN860-ACCEPTANCE, TEST & EVALUATION: Test, inspect, accept first articles and, on a 100% basis, the and proper functioning of each item must be verified.	e production quantity of EOD too	ols and equipment being procured. These tools are man-rated,
VNTNG-INITIAL TRAINING: Provide training support packages which include curriculum material for Joint S	Service EOD and Marine Mamma	al systems equipment.

P-1 SHOPPING LIST

ITEM NO. 124 PAGE NO. 2

CLASSIFICATION:

UNCLASSIFIED

	WEAPONS SYSTEM CO		Weapon Sy	stem							DATE:				
ADDD∩DI	P-5 RIATION/BUDGET ACTIVITY					ID Code	D 1 ITEM NO	OMENCLATUR	DE/QLIBHEAD					June	2001
	ocurement, Navy/BA-4					ID Code	P-IIIEWIN	JIVIENCLATOR	KE/SUBHEAD						
	,					Α		Explosive O	rdnance Di	sposal Equ	uipment/74V	/N			
			TOTAL COST	Γ IN THOUS	ANDS OF DOL	LARS									
COST	ELEMENT OF COST	ID	Prior		FY 2	2000		FY 2001			FY 2002			FY 2003	
CODE		Code	Years												
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	Explosive Ordnance Disposal Equip N85														
VN005	MATERIAL FOR NAVSCOLEOD	Α				150			131			150			
VN034	INITIAL OUTFIT EOD NR	Α				386			331			350			
VN057	MK 32/35 ACCESSORY SET	Α		58	6	337									
VN059	EOD MU ALLOWANCE	Α				2,233			1,567			1,933			
VN065	MMS VSWMCM	Α				1,660			540			686			
VN066	VSW ACCESSORY SET	Α		157	3	551	152	3	535	177	3	620			
VN067	RONS	Α		14	112	1,568									
VN068	MK 8 MMS	В							1,394			2,176			
VN069	MMS ALLOWANCE	Α				200			569			200			
VN070	SMALL CALIBER DEARMER	В					151	2	302	55	2	110			
VN071	STANDOFF DISRUPTER(UXO)	В					52	6	312	79	6	474			
VN072	STANDOFF DISRUPTER(IED)	В								190	4	874			
VN073	EOD INCIDENT SITE C4 SYSTEM	В													
VN074	LARGE IED ACCESS & NEUTRALIZATION	В													
VN830	PRODUCTION ENGINEERING	Α				605			640			665			
VN850	PRODUCT IMPROVEMENT	Α				615			635			645			
VN860	ACCEPTANCE, TEST & EVALUATION	Α				300			300			320			
VNTNG	INIITAL TRAINING	Α				200			200			150			
ĺ															
1															
<u></u> _															
			0		P-1 SHOPPIN	8,805			7,456			9,353			

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

ITEM NO. 124 PAGE NO. 4

UNCLASSIFIED

BUDGET PROCURE	EMENT HIST	ORY AND	PLANNING EXHIBIT	(P-5A)		Weapon System		A. DATE		
									June 2001	
B. APPROPRIATION/BUDG					C. P-1 ITEM NOW				SUBHEAD	
Other Procurement			_		EOD EQUIPI	MENT/BLI #5509			74	VN
BA 4: ORDNANCE	SUPPORT E	QUIPMEN	Γ		CONTRACT			DATE OF	SPECS	DATE
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	FIRST DELIVERY	AVAILABLE NOW	DATE REVISIONS AVAILABLE
FISCAL YEAR (00)										
VN057	58	6			WR	SSC, SAN DIEGO, CA	2/00	2/01	YES	
VN066 VN067	157 14	3 112	NSWCIHD, IH, MD		WR C/FP-OPTION	SSC, SAN DIEGO, CA REMOTEC, OAKRIDGE, TN	2/00 12/99	2/01 5/00	YES YES	
VINUO7	14	112	NSWCIND, IN, IVID		C/FP-OPTION	REMOTEC, OAKRIDGE, TN	12/99	5/00	150	
FISCAL YEAR (01)										
VN066	152	3			WR	SSC, SAN DIEGO, CA	2/01	2/02	YES	
VN070	151	2	NSWCIHD, IH, MD		FFP	TBD	6/01	11/01	YES	
VN071	52	6	NSWCIHD, IH, MD		C/FP-OPTION	DTI, ARLINGTON, VA	6/01	10/01	YES	
FISCAL YEAR (02)										
VN066	177	3			WR	SSC, SAN DIEGO, CA	2/02	2/03	YES	
VN070	55	2	NSWCIHD, IH, MD		FFP	TBD	2/02	7/02	YES	
VN071	79	6	NSWCIHD, IH, MD		C/FP-OPTION	DTI, ARLINGTON, VA	2/02	6/02	YES	
VN072	190	4	NSWCIHD, IH, MD		C/FP-OPTION	DTI, ARLINGTON, VA	2/02	6/02	NO	7/01
D. REMARKS						1		·	1	

D. REMARKS

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

ITEM NO. 124 PAGE NO. 5 **UNCLASSIFIED**

		E	BUDGET ITE	M JUSTIFICA	ATION SHEE	Т			DATE:					
				P-40						June	⊋ 2001			
APPROPRIATION/BU	IDGET ACTIVI	T)					P-1 ITEM NOM	IENCLATURE						
OTHER PROCUR	EMENT, NA	VY	BA 4: ORI	DNANCE SU	PPORT EQU	IPMENT		ITEMS	LESS THAN	\$5M BL	I 554300			
Program Element for	Code B Items:						Other Related Program Elements							
									1					
	Prior Years	ID Code	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total		
QUANTITY														
COST														
(In Millions)			\$4.3	\$5.6	\$5.8	\$5.1	\$5.4	\$5.5	\$5.6	\$5.7		\$43.0		
SPARES COST														
(In Millions)			\$1.7	\$2.1	\$2.5	\$2.2	\$2.2	\$2.3	\$1.8	\$2.0		\$16.8		

PROGRAM DESCRIPTION/JUSTIFICATIONProgram Support Requirements for minor NAVSEA under \$5M is for Budget Activity 4 as follows:

RA001; MK92/MK13 ORDALT Procurement:

Provides hardware and related materials to modify Fire Control System MK92 Mod 2/6 and Guided Missile Launching System MK13 installed onboard 23 FFG 7 Class ships. Modifications correct safety, environmental, RM&A cost of ownership and obsolescence deficiencies to maintain the readiness of the AAW/ASUW Weapons System mission for self and area defense against hostile air and surface threats, including anti-ship missile threats. Hardware is procured as Ordnance Alterations (ORDALTs). Installation of ORDALTs will be accomplished by either AIT (Alteration Installation Teams or in conjunction with routine repair actions planned in the fiscal years following the procurement.

RA5IN: MK92/MK13 ORDALT Installation:

Provides funding to install procured MK92/MK13 ORDALTs into FFG 7 Class ships by AIT.

RA003; Industrial Facilities (Calibration Equipment):

Provides funding for capital type rehabilitation projects at five (5) government-owned, contractor- operated plants for weapon systems such as the MK 41 Vertical Launching System, MK 45 Gun Mounts, MK 13/26 Launching Systems, MK 13/26 Launching Systems, and PHALANX. Federal Acquisition Regulation Part 52.245-7 specifies facilities use contracts require government funding of capital type rehabilitation projects to support and maintain these facilities. These plants have an average age of 45 years and lack of proper maintenance will severely limit capabilities to maintain scheduled production rates and overall productivity. The following estimates support environmental, safety, energy conservation, and major repair at the GOCO facilities.

(Continued on next page)

P-1 SHOPPING LIST

ITEM NO. 125 PAGE NO. 1

CLASSIFICATION:

	BUDGET ITEM JUSTIFICATION SHEET		DATE:		
	P-40			June 2001	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE			
OTHER PROCUREMENT, NAVY	BA 4: ORDNANCE SUPPORT EQUIPMENT	ITEMS	LESS THAN \$5M	BLI 554300	
Program Element for Code B Items:		Other Related Program Eleme	nts		

RA004; Stock Surveillance Equipment

Provides funding to procure test systems and equipment in support of the NAVY weapons systems and ordnance Quality Evaluation (QE) Program. The purpose of the Navy QE Program is to insure that only safe, quality, reliable, and ready Navy and Marine Corps weapons systems and ordnance items are provided to the Fleet. The results of the QE stock surveillance testing is technical readiness data used to predict when items degrade to the point where they become unsafe to store or would fail to function (unreliable) when needed and should be removed from service.

This generic (non-weapons systems specific) test equipment is needed to assess the effects of aging and exposure to environmental conditions on NAVY weapons systems and ordnance such as mines, gun ammunition, missiles, pyrotechnics, demolition systems/devices, bombs, and torpedoes throughout the in-service portion of their life cycle and will be located at NAVSEA engineering field activities. Requirements for the test equipment come from a need to replace or modernize obsolete or economically non-repairable equipment or to acquire new or expanded generic test capabilities when new evaluation techniques or process are needed.

Weapons systems specific equipment is procured/funded via the individual weapons system Program Management offices. After the weapon specific equipment has entered the inventory, these funds adapt the capability, if feasible, to become more generic and support more than one weapon system. This reduces the overall economic burden to the NAVY.

RA005 Fleet Mine Support Equipment:

The Fleet Mine Support program provides for procurement of material and production support for readiness of all mines in stockpile. This includes both the service mine program and the Mine Exercise and Training (MET) Program in accordance with OPNAVNOTE C8550. Funds will provide the following: (A) Procurement of mine materials to replace expended components used during the MET program for Mine Countermeasures (MCM) proficiency. (C) Procurement of components to improve mine operational characteristics and capabilities, such as upgraded processors for compatibility with current and projected technology.

RA830; Fleet Mine Support Production Engineering:

Funds w	ill provide pro	oduction en	gineering su	pport for	mine assembly	and loading, proof and te	est of mine componen	ts delivered from procurement	Certification of	specialization/docun	nentation relating to n	nine material to be
procured	l. enaineering	and quality	v assurance	services	in support of m	ine material procurement	s and publications in	support of component assemb	lv and test for ser	vice and MET progr	ram.	

P-1 SHOPPING LIST CLASSIFICATION:

DD Form 2454, JUN 86 ITEM NO. 125 PAGE NO. 2

	WEAPONS SYSTEM	COST A	NALYSIS			Weapon Sy	stem							DATE:	
	PRIATION/BUDGET ACTIVITY Procurement, Navy					ID Code		OMENCLATU S LESS TI			554300			June	2001
			TOTAL COS	T IN THOUS	SANDS OF DC	DLLARS	l.								
COST	ELEMENT OF COST	ID Code	Prior Years		FY 2000			FY 2001			FY 2002			FY 2003	
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
RA001	FLT SUPPORT ORDALTS(MK92/MK13)	А		12	74	887	12	86	1,034	12	88	1,052			
RA002	FMP Installation					112			112			111			
RA003	INDUST. FACILITIES (CALIB. EQUIP)					969			1,033			1,063			
RA004	STOCK SURVEILLANCE EQUIPMENT Navy Conv. Ammunition Test Equip.					704			444			783			
	Navy Pyro/Demo Test Equipment					113			24			125			
	Navy Missile Test Equipment					320			570			351			
	Marine Corp Conven Ammunition/ Test Equipment					180			336			208			
	Navy Mine/Torpedo Test Equipment					113			176			128			
	FLEET MINE SUPPORT EQUIPMENT														
RA005	Mine System Support					690			1,570			1,680			
RA830	Production Engineering					196			262			294			
			0			4,284			5,561			5,795			0
DD FOR	M 2446, JUN 86	P-1 SH	IOPPING LIST									CLASSIFICA	TION:		

P-1 SHOPPING LIST
ITEM NO. 125 PAGE NO. 3

BUDGET PROCUREME	INT HISTORY	Y AND PLA	ANNING EXHIBIT (P-5A)		Weapon System		A. DATE		
						MK92/MK13			June 200	1
B. APPROPRIATION/BUDGET A Other Procurement, Na					C. P-1 ITEM NOM	ITEMS LESS THAN \$	5M		SUBHEAD 84	RA
Cost Element FISCAL YEAF	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FISCAL YEAR 2000										
RA001- FCS MK92 MOD 6	12 VAR	149 VAR	NSWC/PHD NAVSEA	2/00 12/99	CPFF SS/FP	LOCKHEED/NJ Britsh Aerospace	7/00 12/99	7/01 12/00	YES YES	
RA005 - FLT Mine Spt Eq	VAR	VAR	NAVSEA	12/99	33/FF	United Kingdom	12/99	12/00	123	
FISCAL YEAR 2001										
RA001- FCS MK92 MOD 6	12	86	NSWC/PHD	06/01	CPFF	LOCKHEED/NJ	2/01	2/02	YES	
RA005 - FLT Mine Spt Eq	VAR	VAR	NAVSEA	12/00	OPTION	Britsh Aerospace United Kingdom	12/00	12/01	YES	
FISCAL YEAR 2002										
RA001- FCS MK92 MOD 6	12	160	NSWC/PHD	12/01	CPFF	LOCKHEED/NJ	2/02	2/03	NO	
RA005 - FLT Mine Spt Eq	VAR	VAR	NAVSEA	12/01	OPTION	Britsh Aerospace United Kingdom	12/01	12/02	YES	
D. REMARKS						<u> </u>				

Classification: DD Form 2446-1, JUL 87 P-1 SHOPPING LIST ITEM NO. 125

PAGE NO.

			BUDGET I	TEM JUSTIFIC	ATION SHEE	T				DATE:		
				P-40						JUNE	2001	
APPROPRIATION/BUD	GET ACTIVIT	ГΥ						P-1 ITEM NOMI	NCLATURE/LII	NE ITEM #		
OTHER PROCURE	MENT, NA	VY										
4 - ORDNANCE SU	IPPORT EC	QUIPME	NT					ANT	TI-SHIP MISS	ILE DECOY S	SYSTEMS/55	30
Program Element for 0	ode B Items:			0604755N, Proje	ect Number: U21	90/K2190		OTHER RELAT	ED PROGRAM	ELEMENTS		
									N/	Α		
	FY99	ID									То	
	and Prior	Code	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	Total
QUANTITY	18		8	8	8							42
EQUIPMENT COST												
(In Millions)	55.2	Α	\$32.1	\$37.8	\$27.5							\$152.6
SPARES COST												
(In Millions)	0.7		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A	\$0.7

PROGRAM DESCRIPTION/JUSTIFICATION:

JUSTIFICATION: The Anti-Ship Missile Decoy Program covers a family of decoys and the equipment to deploy them. It is an essential element of the Anti-Ship Missile Defense tactics to counter the threat of enemy homing missiles. Equipment funded under this line includes:

NULKA: This line contains various equipment and subsystems for a system which will provide the capability to defeat the effectiveness of hostile Anti-Ship cruise missiles. Currently Nulka is scheduled to be installed on the following ship classes: DD 963, DDG 51, CG 47, LSD 41, LPD 17, and DD 21. The installation will be performed during a limited availability shipalt/AIT. Final installation plans will be made upon maturation of ship installation design.

- (a) Decoys and launching system equipment. An active off-board Anti-Ship Missile Decoy System.
- (b) Production Engineering Support.

Nulka is a joint program with Australia, and is currently in service with the Australian Navy. Nulka underwent successful TECHEVAL and OPEVAL in July/August 1998 with a full production decision received in January 1999.

EQUIPMENT INSTALLATION: Funding is for the installation of equipment, including Fleet Modernization Program Installs, and installation of equipment at shore facilities

P-1 SHOPPING LIST

PAGE NO.

CLASSIFICATION:

1 UNCLASSIFIED

ITEM NO.

UNCLASSIFIED

	WEAPONS SYSTEM C	OST AI	NALYSIS			Weapon Sy	stem						DATE:		
	RIATION/BUDGET ACTIVITY rocurement, Navy	ORDI	IANCE SUI	PPORT EG	QUIPMENT	ID Code		OMENCLATUR			STEMS/AA		JUNE 200	1	
			TOTAL COS	T IN THOUS	ANDS OF DO	LLARS		ANTI-OIIII	WIIOGIEE D	<u> </u>	O I LINIO/A4	• •			
COST	ELEMENT OF COST	ID Code	Prior Years		FY 2000			FY 2001			FY 2002			FY 2003	
CODE		Code	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	N76														
	EQUIPMENT														
VV001	NULKA SYSTEMS	А	12,570	8	254	2,062	8	230	1,840	8	240	1,920			
VV002	NULKA DECOYS*	А	26,400	68	267	18,176	97	260	25,245	49	300	14,700			
VV003	Engineering Changes and Logistics Suppt		8,400			5,112			3,709			3,911			
	Engineering Changes		(4,000)			(1,100)			(1,100)			(1,137)			
	Logistics Support		(4,400)			(4,012)			(2,609)			(2,774)			
VV830	Production Engineering		3,400			1,600			1,500			1,500			
V V 0 3 0	INSTALL		3,400			1,000			1,300			1,300			
VVINS	Installation (FMP)		4,630			5,151			5,471			5,482			
	*Funds from FY 2001 will be spread into FY 2	002 to m	naintain MSR o	of 66 per yea	ır.										
DD EODIA	2446 ILINI 96	DACII	55,400			32,101			37,765			27,513	TION		0

DD FORM 2446, JUN 86 P-1 SHOPPING LIST

ITEM NO.

PAGE NO.

CLASSIFICATION:

BUDGET PROCUI	REME	NT HIST	ORY AND PLAN	NING EXHIB	BIT (P-5A)	Weapon System		A. DATE	JUNE	2001
B. APPROPRIAT OTHER PROCUREMEN			_	EQUIPMENT		M NOMENCLATURE SSILE DECOY LAUNCH		ГЕМ	SUBHEAD A4	
Cost Element/ FISCAL YEAR	QTY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF NO WHEN AVAILABLE
FISCAL YEAR 00										
VV001 (Systems)	8	254	NAVSEA		FP	Sechan Electronics Inc.	6/00	08/01	YES	
VV002 (Decoys)	68	267	DCMC Pacific		FP	BAeS, Australia	5/00	5/01	YES	
FISCAL YEAR 01 VV001 (Systems)	8	230	NAVSEA		FP	Sechan Electronics Inc.	1/01	1/02	YES	
VV002 (Decoys)	97	260	DCMC Pacific		FP	BAeS, Australia	1/01	1/02	YES	
FISCAL YEAR 02 VV001 (Systems)	8	240	NAVSEA		FP	Sechan Electronics Inc.	1/02	2/03	YES	
VV002 (Decoys)	49	300	DCMC Pacific		FP	BAeS, Australia	2/02	2/03	YES	
D DEMVDK6										

D. REMARKS

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST CLASSIFICATION:

ITEM NO. PAGE NO.

126

P3A		INDIVID	UAL	MODIFIC	ATIO	N																
MODELS OF SYSTEM AFFECTED:	None - C	Original Ins	tallatio	ons	TYP	E MODIFI	CATI	ON:				- .			MOD	IFICAT	ION T	ITLE:		NULKA		
DESCRIPTION/JUSTIFICATION:																						
Launching system modifications to support !	NULKA D	ecoy.																				
DEVELOPMENT STATUS/MAJOR DEVELO	OPMENT FY 199		ONES	3 :																		
	and Price	<u>or</u>		2000		Y 2001		2002		2003		2004		2005		2006		2007		TC		OTAL
FINANCIAL PLAN (IN MILLIONS)	QTY	<u>\$</u>	QTY	\$	QTY	\$	QTY	\$ 	QTY	\$	QTY	\$	QIY	\$	QIY	\$	QTY	<u>\$</u>	QTY	\$	QTY	\$
RDT&E	3/58	122.5	0	4.3	0	3.2	0	5.0													3/58	135.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS	17	11.57	8	2.1	8	1.8	8	1.9													88	17.4
INSTALLATION KITS NONRECURRING																						0.0
SCN MK 53 DLS**	1	0.5	3	0.8	5	1.1	4	1.2														**
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGES		4.0		1.1		1.1		1.1														7.3
UNIT COST DATA FOR EQUIPMENT																						0.0
TRAINING EQUIPMENT	1*	0.97																			1	0.97
SUPPORT EQUIPMENT																						0.0
OTHER (DECOYS)	108	26.4	68	18.2	97	25.2	49	14.7													896	84.5
LOGISTICS SUPPORT		4.4		4.0		2.6		2.8														13.8
PRODUCTION ENGINEERING		3.4		1.6		1.5		1.5														8.0
INTERIM CONTRACTOR SUPPORT																						

PROCUREMENT COST

INSTALL COST

TOTAL PROGRAM

P-1 SHOPPING LIST

57

22.0

5.5

27.5

CLASSIFICATION: UNCLASSIFIED

985

88

131.9

20.7

152.6

**SCN is provided for information purposes only - $\$ are not included in totals

125

6

50.7

4.6

55.3

76

5

27.0

5.2

32.1

105

32.2

5.5

37.7

ITEM NO. PAGE NO.

126

4

^{*} Qty (1) trainer procurement with install cost included.

P3A (Continued)								INDIVIDU	JAL M	ODIFICA	ATION	(Continue	d											
MODELS OF SYSTEMS A	FFECT	ED:	_	None	e. Ori	iginal Ins	stallati	ons		_ M	ODIFIC	ATION TI	ΓLE:	N	ULKA							_		
INSTALLATION INFORMA METHOD OF IMPLEMENT ADMINISTRATIVE LEADT CONTRACT DATES: DELIVERY DATE:	TATION IME:	I: FY 2 FY 2	2000:						-	PRODU FY 200 FY 200	1:	N LEADTIN January 2 January 2	2001	1	4/12 Mo	F١			nuary 2		-			
											∕¢ i	n Millions)									_			
Cost:	F	Y 19	99 and	l Prior	F\	Y 2000	l F	Y 2001	l F	Y 2002		Y 2003	l F	Y 2004	F	Y 2005	l F	Y 2006	l F	Y 2007	T T	o Complete	-	Total
0031.		Qty	\$		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS			·			•												·				•		
FY 1999 AND PRIOR		6	3.76		5	2.38	7	3.78															18	9.92
FY 2000 EQUIPMENT						2.77	1	1.69	7	4.07													8	8.53
FY 2001 EQUIPMENT										1.41													8	5.75
FY 2002 EQUIPMENT																							8	5.57
FY 2003 EQUIPMENT																								0.00
FY 2004 EQUIPMENT																								0.00
FY 2005 EQUIPMENT																								0.00
FY 2006 EQUIPMENT																								0.00
FY 2007 EQUIPMENT																								0.00
TO COMPLETE **																								0.00
INSTALLATION S <u>CHE</u>	OULE:		SHIP	AVAII	LABIL	ITIES																	.	
	2000 PRIOR	1	<u>FY 2</u> 2	<u>2001</u> 3	4	1 2	<u>2002</u>	4 1	<u>FY</u> 2	2 <u>003</u> 3 4		FY 200 ²	<u>!</u> 4		<u>Y 2005</u> 2 3	4 1	<u>FY</u> 2	2 <u>006</u> 3 4		FY 200		TC	Т	OTAL
	11	3	0	1	4	0 3		0 0	4	1 3		1 4	3		6 1	1 1	4	2 1	2	1 3		63		89
OUT 1	10	1	2	1	1	4 0	3	3 1	0	3 2	2	1 1	3	4 (0 3	4 1	1	3 4	0	2 1	3	61		89
										ITI	EM NO.	126	P	AGE	5					CI	ASSIE	ICATION: U	NCI A	SSIFIFD

FY 2002/03 BUDGET PRODUCT	TION S	CHE	DULE,	P-21														DATE			JU	NE 2	2001						
APPROPRIATION/BUDGET ACT													Wea	apor	า Sys	stem		P-1 ITE	M N	OM	ENC	LAT	URE						
OTHER PROCUREMENT, NAVY	/BA-4	- ORE	DNANG	CE SU	PPOF	RT E	QUIF	MEN	T										AN٦	I-SHI	РМІ	SSILI	E DE	COY	SYST	EMS	/A4V\	V	
							Pro	oduct	ion F	Rate					Pro	cure	emer	nt Leadt	imes										
		Mar	nufactu	rer's								AL	T P	rior	ΑL	T A	ter	Initi	al	R	eor	der					Un	it of	
Item	1		and Lo		n	MS	SR	1-8	3-5	MA	٩X		Oct			Oct		Mfg F	LT	М	lfg P	LT		Tota	ıl		Mea	asure	٤
MK 53 DECOY LAUNCH SYSTEM	•		can, M			9		. `		18						6		14		1	12				•				-
MK 53 DECOY LAUNCH SYSTEM			an, PA			9				18						6		14			14								\rightarrow
MK 234 NULKA ELECTRONIC DECOY			3. Aust			60				19						6		12		1	12		1						
MK 234 NOLKA ELECTRONIC DECOT		DAGE	o, Ausi	Ialla		01	0			18	2					0		12			12	-							\longrightarrow
																				-			-						\longrightarrow
										FISC	AL YE	AR 20	000		J						FIS	CAL \	YEAR	2001		J			
ITEM / MANUFACTURER	F	S	Q	D	В	1	999						ALEN	IDAR	YEAR	2000		***************************************				C	ALEN[DAR Y	EAR 2	2001			1
	Y	V	Т	Е	Α	0	N	D	J	F	М	A	М	J	.,	A	s	O N	D	J	F	Т м	A	М	J .J	.1	A	s	В
		С	Υ	L	L	c	0	E	A	E	A	Р	A	Ü	Ü	U	E	c o	E	A	E	A	P	A	Ü	Ü	U	E	A
						Т	V	С	N	В	R	R	Υ	N	L	G	Р	TV	С	N	В	R	R	Υ	N	L	G	Р	لـــّــا
MICES DECOVE AUTOUS SYSTEMS	07/00		_																										
MK 53 DECOY LAUNCH SYSTEMS	97/98		7	3	4	1	1	2	_		4	_		-	_	-	-		-		-	+	-	-			+	-	0
MK 53 DECOY LAUNCH SYSTEMS	99 99		11	0	11				1	1	1	1	1	2	1	2	1	1	-				-				-		0
MK 53 DLS (SCN) MK 53 DECOY LAUNCH SYSTEMS	00		8	0	8			-		-				Α		-		1	+	-	-	+	-		-		1	1	6
MK 53 DLS (SCN)	00		3	0	3									A					-			-	-		-		+-	'	3
MK 53 DECOY LAUNCH SYSTEMS	01		8	0	8									^						Α			-				-		8
MK 53 DLS (SCN)	01		5	0	5											<u> </u>			+	A	 	-			†		-		5
33 223 (33.1)	•																		1										
MK 234 NULKA DECOY (Non-U.S.)	97		274	75	199	15	15	15	15	15	15	15	15	10	10	10	10	6 5	5	5	6	6	6				<u> </u>		0
MK 234 NULKA ELEC. DECOY (U.S.)	98/99		56	0	56											5	5	9 6	6	6	2	2	2	3	5	5			0
MK 234 NULKA ELEC. DECOY (U.S.)	00		68	0	68								Α											10	10	8	8	8	24
MK 234 NULKA ELEC. DECOY (U.S.)	01		97	0	97															Α									97
										FISC	AL YE	AR 20	002								FIS	CAL \	YEAR	2003		_			
ITEM / MANUFACTURER	F	S	Q	D	В		2001			·0	CAL	ENDA	AR YE	AR 20	002			200	2			C	ALENI	DAR Y	EAR 2	2003			ı
	Υ	V	T	Ε.	A	0	N	D	J	F	М	Α	М	J	J	Α	S	O N	D	J	F	М	Α	М	J	J	Α	S	B
		С	Υ	L	L	С	0	E	Α	Е	Α	P	Α	U	U	U	E	СО	- 1	Α	E	Α	P	Α	U	U	U	Е	Ĺ
						Т	V	С	N	В	R	R	Υ	N	L	G	Р	T V	С	N	В	R	R	Υ	N	L	G	Р	Ш
MK 53 DECOY LAUNCH SYSTEMS	00		8	2	6	1	1	1	1	1	1								+			-					-		
MK 53 DLS (SCN)	00		3	0	3		<u> </u>	l i	<u> </u>	i .	•	1	1	1		l			1	-		1	-	-			1		0
MK 53 DECOY LAUNCH SYSTEMS	01		8	0	8				1	1	1	1	1	1	1	1			1	1			1			l			0
MK 53 DLS (SCN)	01		3	0	3		<u> </u>			<u> </u>							1		1			T	1	<u> </u>					0
MK 53 DECOY LAUNCH SYSTEMS	02		8	0	8				Α																				0
MK 53 DLS (SCN)	02		5	0	5				Α																				4
MK 53 DECOY LAUNCH SYSTEMS	03		8	0	8																								8
MK 53 DLS (SCN)	03		5	0	5																						<u> </u>		5
																			-			-	1	-			-		I
MK 234 NULKA ELEC. DECOY (U.S.)	00		68	44	24	8	8	8	<u> </u>	-		<u> </u>	_		<u> </u>	<u> </u>			-	ļ		-	 	-	-		-	-	<u> </u>
MK 234 NULKA ELEC. DECOY (U.S.)	01		97	0	97			-	6	5	6	5	6	5	6	5	6		-		-	-	1	-	-				0
MK 234 NULKA ELEC. DECOY (U.S.) MK 234 NULKA ELEC. DECOY (U.S.)	02 03		49 54	0	49 54			-		Α				-		-			+		-	+	-	-	-		-		32 54
Remarks: Decay Production rotes		L					<u> </u>		L	<u>. </u>		L		٠	<u>. </u>	٠.	L		٠	٠		٠	J	<u> </u>	٠.	L			4

Remarks: Decoy Production rates are based on a combined United States, Australia and Canada production schedule. Australia and Canada are not buying US Ship system. Presently no other countries are buying this system or decoy.

P-1 SHOPPING LIST DD Form 2445, JUL 87 Previous editions are obsolete ITEM NO PAGE

6

UNCLASSIFIED CLASSIFICATION:

			BUDGET ITE	M JUSTIFIC	ATION SHEE	ΞT			DATE:			
				P-	-40				•		June	2001
APPROPRIATION/BUI	OGET ACTIVIT	TY					P-1 ITEM NOM	MENCLATURE				
OTHER PROCURE	EMENT, NA	VY	BA-4 ORDN	ANCE SUPP	ORT EQUIP	MENT	SURFACE T	RAINING DE	VICE MODIF	CATIONS	BLI; 566000	SBHD; 84T
Program Element for C	ode B Items:						Other Related	Program Eleme	nts			
	Prior	ID									То	
	Years	Code	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	Total
QUANTITY												
COST												
(In Millions)	N/A		\$7.0	\$7.9	\$7.3						Cont.	Cont.
SPARES COST												
(In Millions)			\$0.2	\$0.2	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1		\$1.0

566000) This line provides funds to modify/upgrade training devices to maintain systems at Fleet configuration and to enhance training capability.

(TS001) CARRY-ON COMBAT SYSTEM TRAINER (COCST) COCST effort will provide a portable Battle Force Tactical Training (BFTT)/Generic Navy Stimulator/Simulator/GNSS) training capability for those ships not programmed to receive the BFTT/GNSS capability. Funding to complete COCST procurement was provided in FY 99 and FY 00. These systems will provide a portable BFTT/GNSS training capability for those ships not programmed to receive the BFTT/GNSS capability.

(TS004) SURFACE TRAINING DEVICE MODS Provides funding for surface warfare minor modifications. These modifications are improvements/upgrades to in-service surface training systems identified by the program offices and training activities, and are approved by the Resource Sponsor. Modifications are required to meet safety standards, keep training systems compatible with equivalent changes made to fleet operational equipment, and to enhance training capabilities. These modifications support the 300+ fielded Surface training systems and their concurrency with fleet operational configuration.

- o Funding is provided annually for modifications to the Device S14A13 Tactical Advanced Simulated Warfare Integrated Trainer (TASWIT) applicable to the Multi-Mission Team Trainer (MMTT).
- o Funding is provided from FY98 through FY01 for upgrade of the Mobile Combat Systems Trainer (MCST) Device 20B5 for application to the MK 92 Mod 6 Fire Control System (FCS) applicable to COCST.
- o Funding was provided in FY00 and out for procurement/installation/upgrade of the Navy's standardized shore based team tactics trainer applicable to the MMTT.
- o Funding was provided in FY00 for modification of AN/USQ-T46 BFTT Systems to incorporate DoD mandated High Level Architecture (HLA) standards/functionality.

(TS006) BFTT HIGH LEVEL ARCHITECTURE (HLA) Funding updates the requisite printed circuit cards for existing AN/USQ-T46(V) BFTT Systems in order to utilize HLA vice DIS protocols.

(TS007) MULTI-MISSION TEAM TRAINER (MMTT) Funding consolidates the software functionality of the Device S14A13 TASWIT and the Device 20F15 TACDEW SG&C and updates the systems at SWOS, at the Fleet ASW Training Centers LANT and PAC, and at the Fleet Combat Training Centers LANT and PAC.

P-1 SHOPPING LIST

PAGE NO. 1

CLASSIFICATION:

ITEM NO. 127 DD Form 2454, JUN 86

UNCLASSIFIED

	WEAPONS SYSTEM C	OST AN	NALYSIS			Weapon Sy	/stem							DATE:	
ADDDOD	P-5					ID Codo	ID 4 ITEM N	OMENICI ATU	DE/CLIBLIEA					Jun	-01
	RIATION/BUDGET ACTIVITY rocurement, Navy					ID Code	P-THEMIN	OMENCLATUR	KE/SUBHEAL	J					
	RDNANCE SUPPORT EQUIPMENT						SURFAC	E TRAINING	DEVICE I	MODIFICA	ATION BLI:	566000 SB	HD:84TS		
			TOTAL COS	T IN THOUS	ANDS OF DO	LLARS	•								
COST	ELEMENT OF COST	ID	Prior		FY 2000			FY 2001			FY 2002			FY 2003	
CODE		Code	Years	0		T-1-101	Over tite		T-1-1 01	O tit	Unit Cost	T-1-101	0		T-1-1 01
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	SURFACE MODS (N85/N86)														
TS001	CARRY-ON COMBAT SYSTEM			1	1,426	1,426									
	TRAINER (COCST)														
TS004	SURFACE TRAINING DEVICE MODS														
	Surface Minor Mods (N85)					466			230			235			
	Surface Minor Mods (N86)					2,618			5,638			5,083			
TS006	BFTT HIGH LEVEL ARCHITECTURE			36	69	2,500									
	(HLA) (N86)					,									
	(12.4) (136)														
TS007	MULTI-MISSION TEAM TRAINER						1	2,000	2,000	1	2,000	2,000			
	(MMTT) (N86)														
	SUBTOTAL (N85)					466			230			235			
	SUBTOTAL (N86)					6,544			7,638			7,083			
	CODITION (NOO)					0,544			1,000			7,003			
		1	0			7,010			7,868			7,318			
DD FORM	2446, JUN 86	P-1 SH	OPPING LIST			,			- ,- 30		1	CLASSIFICA		1	

DD FORM 2446, JUN 86 P-1 SHOPPING LIST ITEM NO. 127 PAGE NO.

T ACTIVITY Navy									
Navy								June	2001
•				C. P-1 ITEM NOM	ENCLATURE			SUBHEAD	
CLIDDODT				SURFACE TRAI	NING DEVICE MODIFICATION	ONS			
SUFFURI	EQUIPN	IENT		BLI: 566000				SBHD:84T	
QUANTITY	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
	(000)	DCMC			AAI Corporation				
1	1,426	Towson, MD	N/A	BOA	Hunt Valley, MD	12/99	10/00	YES	N/A
		NAWCTSD			ESP				
11	221	Orlando, FI	N/A	FFP	Lynnwood, WA	2/00	9/00	Yes	NA
1	650	NAWCTSD Orlando, Fl	6/00	GSA	RDR, Inc Centerville, Va	8/00	12/02	Yes	N/A
Var	TBD	NAWCTSD Orlando, Fl	Various	Various	Various	Various	Various	Yes	N/A
36	69	NSWC, PHD Port Hueneme, CA	Various	Various	Various	Various	Various	YES	N/A
1	2,000	NAWC TSD Orlando, FL	N/A	N/A	N/A	N/A	03/01	YES	N/A
1	2,000	NAWC TSD Orlando, FL	N/A	N/A	N/A	N/A	03/02	YES	N/A
	11 1 Var 36	1 1,426 11 221 1 650 Var TBD 36 69 1 2,000	1	1 1,426 DCMC Towson, MD N/A 1 1,426 Towson, MD N/A 1 221 Orlando, Fl N/A 1 650 NAWCTSD 6/00 Orlando, Fl Various Var TBD NAWCTSD Orlando, Fl Various NSWC, PHD Port Hueneme, CA Various 1 2,000 NAWC TSD Orlando, FL N/A NAWC TSD N/A NAWC TSD N/A NAWC TSD N/A N/A NAWC TSD N/A NAWC TSD N/A N/A N/A NAWC TSD N/A NAWC TSD N/A N/A N/A N/A N/A N/A N/A NAWC TSD N/A 1 1,426	1 1,426 DCMC Towson, MD N/A BOA Hunt Valley, MD NAWCTSD Orlando, FI N/A FFP Lynnwood, WA NAWCTSD Orlando, FI Various Various NAWCTSD Orlando, FI Various Various NSWC, PHD Port Hueneme, CA Various Various NAWC TSD Orlando, FL N/A N/A N/A N/A NAWC TSD	1	1	1	

P-1 SHOPPING LIST Classification: ITEM NO. 127 DD Form 2446-1, JUL 87 3

PAGE NO.

	SIMULATO	R AND TRAIN	IING DEVICE	Date		June 2001				
Appropriation	n P-1 Line Item	Weapon System		Equipment No	menclature		PE			
	566000			Surface Trai	ning Device N	Modifications	0804731N			
Fin Plan	Prior Years	FY00	FY01	FY02	FY03	FY04	FY05	FY06	FY07	TOTAL
Quantity	VAR	VAR	VAR	VAR	VAR	VAR	VAR	VAR	VAR	VAR
Proc	\$15,446	\$7,010	\$7,868	\$7,318						Cont.
RDT&E										
O&S										

(L/I 566000) This line provides funds to modify/upgrade training devices to maintain systems at Fleet configuration and to enhance training capability.

(TS001) CARRY-ON COMBAT SYSTEMS TRAINER (COCST) COCST effort will provide a portable Battle Force Tactical Training (BFTT)/Generic Navy Stimulator/Simulator (GNSS) training capability for those ships not programmed to receive the BFTT/GNSS capability. Funding to complete COCST procurement was allocated in FY 99 and FY 00. These systems will provide a portable BFTT/GNSS training capability for those ships not programmed to receive the BFTT/GNSS capability.

(TS004) SURFACE TRAINING DEVICE MODS Provides funds for surface warfare minor modifications. These modifications are improvements/upgrades to in-service surface training systems identified by the program offices and training activities, and are approved by the Resource Sponsor. Modifications are required to meet safety standards, keep training systems compatible with equivalent changes made to fleet operational equipment, and to enhance training capabilities. These modifications support the 300+ fielded Surface training systems and their concurrency with fleet operational configuration.

(TS005) BATTLE FORCE TACTICAL TRAINING ELECTRONIC WARFARE TRAINER (BEWT) FY 99 Congressionally mandated funding was provided for the production and installation of BEWT. BEWT provides an Electronic Warfare (EW) system operator and team training capability.

(TS006) BFTT HIGH LEVEL ARCHITECTURE (HLA) Funding updates the requisite printed circuit cards for existing AN/USQ-T46(V) BFTT Systems in order to utilize HLA vice DIS protocols.

(TS007) MULTI-MISSION TEAM TRAINER (MMTT) Funding consolidates the software functionality of the Device S14A13 TASWIT and the Device 20F15 TACDEW SG&C and updates the systems at SWOS, and at the Fleet ASW Training Centers LANT and PAC, and at the Fleet Combat Training Centers LANT and PAC.

EXHIBIT 43A
P-43 Simulator & Training Device Justification

ITEM 127 PAGE NO. 4 Classification: UNCLASSIFIED

EXHIBIT P-43	3								D.	ATE:																
SIMULATO	R AND TR	AINING	DEVICE	JUSTIFIC	CATIO	N			Ju	ne 2001																
Appropria	ation/P-1 Line	Item																		IOC Date						
Other Procu	urement Na	vy/Surfa	ce Traini	ng Device	Modifi	cation																				
Training			Ready for	Average																						
Device		Delivery	Training	Student	Prior	Years	F١	Y 2000	FY 2	2001	FY	2002	FY	2003	F١	Y 2004	FY 2	005	F	Y 2006	FY	2007	To C	omplete	T	otal
by Type	Site	Date	Date	Throughput	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
	Y-ON COMB																									
COCST	First Unit			N/A	4	6,296	1	1,426																	5	7,722
	Second Unit			N/A																						
	Third Unit			N/A																						
	Fourth Unit		01/01	N/A																						
	Fifth Unit	10/00	01/01	N/A																						
	ACE TRAININ	NG DEVIC									_															
VAR			VAR	N/A	VAR	8,150	12	3,084	VAR	5,868 VA	AR	5,318													VAR	51,374
T0005 DATT	F 50005 T	 				DE4.DE	TD 41	NED (DE)	A (T)																	
	E FORCE TA	ACTICAL						NEK (RE/	/V I)																	
BEWT	VAR			N/A	10	1,000																			10	1,000
TOOOS DETT		ADOLUTE																								
15006 BF11	HIGH LEVEL	ARCHITE	CTURE (-00	0.500																	00	0.500
T0007 MUU T	 MICCION TE			N/A			36	2,500																	36	2,500
15007 MULT	I-MISSION TE	=AIVI I KA	INEK (IVIIVI							0.000		0.000														4 000
				N/A					1	2,000	1	2,000													2	4,000
Total						45 440	40	7.040		7.000		7.040			•				•		0	0	0	•		
Total					14	15,446	49	7,010	1	7,868	1	7,318	0	0	0	0	0	0	0	0	U	U	U	0		Cont.
Description	1																									
Description																										

		Е	BUDGET ITE	M JUSTIFICA	ATION SHEE	T			DATE:			
				P-40					June 2001			
APPROPRIATION/BUD	GET ACTIVI	TY					P-1 ITEM NOM	MENCLATURE				
OTHER PROCURE	MENT, NA	VY/BA-4					SUBM	IARINE TRAI	NING DEVIC	E MODS/BLI	: 5661/SBHD:	84TD
Program Element for Co	de B Items:						OTHER RELA	TED PROGRAM	1 ELEMENTS			
	Prior Years	ID Code	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total
QUANTITY												
EQUIPMENT COST (In Millions)			\$27.1	\$33.8	\$20.8							
SPARES COST (In Millions)												

PROGRAM DESCRIPTION/JUSTIFICATION:

(L/I 5661)

This line provides funds to modify/upgrade training devices to keep them compatible with equivalent changes made to Fleet operational equipment and to enhance trainer systems capabilities.

(TD002) SUBMARINE TRAINING DEVICE MODS

Provides funding for minor modifications which are upgrades to submarine training systems which are centrally managed systems. These improvements/upgrades are required to keep training systems compatible with equivalent changes made to fleet operational equipment and to change trainer capabilities meet emergent training requirements. In FY01, congress provided additional funds to procure technical alternatives for data conversion of existing Technical Manuals (TMs) to an Intelligent Graphics format, which will provide meaningful data needed for production conversion of subsequent Submarine Technical Manuals to this new format. This effort has been selected as a CNO pilot project to demonstrate how improving IETM functionality results in improved Sailor-based maintenance.

(TD003) SUBMARINE MULTI-MISSION TEAM TRAINER/COMBAT CONTROL SYSTEM (SMMTT/CC)

To achieve desired submarine force readiness levels, it is necessary to construct highly sophisticated shorebased training facilities capable of training submarine combat system team personnel in all aspects of submarine approach, attack and surveillance operations in a controlled, simulated environment.

The Combat Control System (CCS) MK 1 and CCS MK 2 are installed, or being installed, on SSN and SSBN (TRIDENT) Class submarines. CCS MK 1 submarines will receive Basic kits (initial update of CCS MK 1) and CCS MK 2 Block changes.

CCS MK 2 DO Block 1 Program includes Tomahawk Block III, Harpoon Block 1C, ADCAP (Advanced Capability torpedo) mods, NTCSA (Navy Tactical Command System Afloat, and ATWCS (Advanced Tomahawk Weapon Control System).

P-1 SHOPPING LIST

ITEM NO. 128 PAGE NO. 1

CLASSIFICATION:

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET	DATE:
P-40	JUNE 2001
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE
OTHER PROCUREMENT, NAVY/BA-4	SUBMARINE TRAINING DEVICE MODS/BLI: 5661/SBHD: 84TD
Program Element for Code B Items:	OTHER RELATED PROGRAM ELEMENTS

(TD003) SUBMARINE MULTI-MISSION TEAM TRAINER COMBAT CONTROL SYSTEM (SMMTT/CQ)Continued)

The CCS MK2 tactical program is to be upgraded to include CCS MK 2 Block 1 C. This includes Combat Display Console (CDC) color/landscape, CPU parallel processor removal, AN/UYK-44 removal, Mk 23 Graphic Plotter OER, additional ADCAP upgrades, and FTAG (Fleet Tactical Advisory Group) improvements. CCS MK 2 Block 1 also introduces the Advanced Tomahawk Weapon Control System (ATWCS), NTCS-A and Tomahawk Block Improvement Program (TBIP) which consists of Tomahawk Weapon improvements.

The Submarine Multi Mission Team Trainer (SMMTT) Phases 1, 2, 3 program replaces the proprietary mainframe computer system by re-hosting functions on industry standard Local Area Network (LAN) workstations. The mainframes can no longer be upgraded due to service life. The SMMTT modification applies to both the CCS trainers and the acoustic trainers and will occur in three distinct phases. SMMTT Phase 1 provides partial offload of the trainer-unique-equipment (TUE) software and provides additional processing power through the use of independent workstations. SMMTT Phase 2 completes the trainer-unique software offload and enables further enhancements. SMMTT Phase 3 will replace all MIL Standard hardware with commercial emulation hardware, enabling platform independence and wide area network capability. The use of open architecture trainer systems allows for the continuous growth of functional flexibility ultimately leading to employment training conducted for any submarine CCS. Plans are established to likewise upgrade submarine tactical systems to an open architecture, and the trainers will be compatible with the tactical interfaces.

FY00 Procures 4 items: Procures TUE hardware for CC EPM; modifies software for SMMTT 2 functions; and modifies functionality of the Submarine Tactical Visual Training System (STVTS) to provide common imaging training for CCS trainers which provides two kits to training sites.

FY01 Procures 7 items: Provides upgrades to the COTS TUE in the SMMTT CC EPM. Modifies software and hardware of the CC EPM to provide SMMTT weapons emulation. Procures three SMMTT upgrade kits to support CCS MK2 training. Modifies the CC trainer STVTS to provide common imaging training for CCS trainers, which provides two kit to training sites.

FY02 Procures 6 items: Provides upgrades to SMMTT non-weapons software. Procure three SMMTT upgrade kits to support CCS MK2 training. Provides STVTS upgrades, with enhanced databases, to two training sites

P-1 SHOPPING LIST

CLASSIFICATION:

ITEM NO.

128 PAGE NO. 2

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET	DATE:
P-40	JUNE 2001
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE
OTHER PROCUREMENT, NAVY/BA-4	SUBMARINE TRAINING DEVICE MODS/BLI: 5661/SBHD: 84TD
Program Element for Code B Items:	OTHER RELATED PROGRAM ELEMENTS

(TD005) SUBMARINE MULTI-MISSION TEAM TRAINER /ACOUSTIC (SMMTT/A)

The AN/BQQ-5 Series Sonar Systems are installed aboard SSN Class submarines. The Submarine Acoustic Trainers, simulate the digital data processing and graphic displays of the associated tactical system. The Tactical Acoustic Rapid COTS (commercial-off-the-shelf) Insertion (ARCI) Phased upgrades impact the AN/BQQ5E(V) systems. The SMMTT upgrades will be applied to selected acoustic, team trainers.

The SMMTT acoustic modifications support training for enlisted and officer pipelines. The SMMTT provides individual operators and combat teams the opportunity to train ashore, prior to, and between deployments. The shore based training provides a means of maintaining team proficiency in stand alone or in combined team mode when tied to Combat System Team Trainers.

FY00 Procures 5 items: Procures SMMTT kits to upgrade two trainers to ARCI-II functionality. It also provides for Acoustic EPM modifications to support spectral analysis integration with SMMTT. Procures TUE hardware for the Acoustic EPM and modifies software to prototype selected ARCI PH III functions.

FY01 Procures 4 items: Procures two SMMTT trainer site kits to support ARCI-II functions. Upgrades the EPM COTS, and provides modifications to the Acoustic SMMTT, ARCI Phase III EPM to support Acoustic Tactical software.

FY02 Procures 2 items: Two SMMTT trainer site kits to support ARCI-III functions.

(TD006) SUBMARINE COMMON BASIC OPERATOR TRAINER (CBOT)

The purpose of these devices is to provide pipeline training to submarine force personnel who require basic and advanced operator training to establish their required level of opera competence. These devices train individual operators on the CCS MK 1/ MK 2, and AN/BSY-1 by supplementing classroom instructions with dynamic training exercises. Through t use of these training devices, the student obtains direct, interactive experience in Command, Weapon, Target Motion Analysis (TMA), and Over-The-Horizon (OTH) operations in order to develop the skills required for effective command and control operations.

P-1 SHOPPING LIST

CLASSIFICATION:

ITEM NO.

128 PAGE NO. 3

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET	DATE:
P-40	JUNE 2001
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE
OTHER PROCUREMENT, NAVY/BA-4	SUBMARINE TRAINING DEVICE MODS/BLI: 5661/SBHD: 84TD
Program Element for Code B Items:	OTHER RELATED PROGRAM ELEMENTS

(TD006) SUBMARINE COMMON BASIC OPERATOR TRAINER (CBOT)Continued

These devices provide an environment substantially equivalent to that found onboard ship, thus enabling students to develop and maintain the combat control expertise necessary to support Fleet operations. FY-90 established the requirement to provide advanced operator training for CCS MK 2 to support SSN 688, SSN 751 (AN/BSY-1), and TRIDENT SSBN (OHIO) Class submarines. The Fire Control Submarine and IUSS Training Requirements Review (SITTR) of 6/92 established the requirements for Common Basic Operato Trainers (CBOT) to support revised A-School training pipelines.

FY00 Procures 4 items: Procures modifications for the CBOT EPM and three training site CBOTs with the CCS MK2 Block 1C weapons enhancements.

FY01 Procures 4 items: Procures modifications for the CBOT EPM and three training site CBOTs with the CCS MK2 Block 1C target motion analysis (TMA) enhancements.

FY02 Procures 4 items: Modifications for the CBOT EPM and three training site CBOTs with CCS Mk2/Mk1 enhancements requested by the Fleet.

(TD011) SUBMARINE MULTI-MISSION TEAM TRAINER/(SMMTT) AN/BSY-1 TRAINER IMPROVEMENTS (SMMTT BSY-1)

AN/BSY-1 trainers support shorebased training for crews of SSN 751 Class submarines fitted with the AN/BSY-1 integrated Combat Control/Acoustic (CC/A). CC/A Team Trainers support subteam training in combat control and acoustics as well as full combat system team training. The SMMTT program will occur in two phases for the AN/BSY-1 Team Trainer: SMMTT Phase 1 will provide BSY-1 trainers with ARCI/APB acoustic and combat control SMMTT functionality, and Phase 2 will replace the obsolete mainframe with a distributive network system.

FY00 Procures 1 item: Modifies the SMMTT EPM to match the AN/BSY-1 ARCI-IV functions.

FY01 Procures 3 items: Modifies the SMMTT EPM to match the AN/BSY-1 ARCI-IV Multi Purpose Console functions and procures two trainer site upgrade kits.

P-1 SHOPPING LIST

CLASSIFICATION:

DD Form 2454, JUN 86

ITEM NO. 128 PAGE NO. 4

BUDGET ITEM JUSTIFICATION SHEET	DATE:
P-40	JUNE 2001
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE
OTHER PROCUREMENT, NAVY/BA-4	SUBMARINE TRAINING DEVICE MODS/BLI: 5661/SBHD: 84TD
Program Element for Code B Items:	OTHER RELATED PROGRAM ELEMENTS

(TD012) SUBMARINE BATTLE FORCE TACTICAL TRAINING (BFTT) DEVICE MODS

The requirement for the Submarine BFTT was established by the BFTT Operational Requirement Document (ORD) No. 2U648877 of 13 Mar 1992. The Submarine BFTT device consists of a carry-on unit that will provide the CO/OOD simulated tactical display (COSTD) depicting the position and modes of each participant and target in the BFTT scenario. The device will interface with and interpret the BFTT scenario and make use of the Tactical Advanced Simulated Warfare Integrated Trainer (TASWIT). The Submarine BFTT program will modify TASWIT software to reflect submarine combat systems displays and the interface with BFTT. It will consist of a computer and interface equipment with software designed to interface with and interpret the BFTT system, and to receive and transmit tactical data using own ship's communications equipment. This device is in tended to exercise the communications team and the CO/OOD, but not to provide training for the remaining submarine sensor operators and Combat System Team.

FY00 Procures one unit.

FY01 Procures one unit.

DD Form 2454, JUN 86

FY02 Procures High Level Architecture (HLA) modifications to COSTD.

TD014 VIRGINIA CLASS SSN 774 DEVICES

Funding is provided for the procurement of Virginia Class (SSN 774) trainers.

FY02 Procures 2 items: Torpedo Room trainer for the training site; and a Verticle Launch System (VLS) trainer for the training site.

(TD6IN) INSTALLATION OF EQUIPMENT

Funding is for the installation of trainers, installation support for trainers, and installations in other shore facilities.

Estimates include competitive sourcing savings associated with consolidation of production support contracting efforts.

P-1 SHOPPING LIST

ITEM NO. 128

PAGE NO. 5

CLASSIFICATION:

LINCI ASSIFIED

ITEM NO.

128

	P-5	JUST AN	IALYSIS			Weapon Sy	rstem							DATE: JUNE 200)1
	PRIATION/BUDGET ACTIVITY					ID Code	P-1 ITEM N	OMENCLATU	RE/SUBHEAI	D			I		
	rocurement, Navy						OLIDAAA F	NAIE TO AIN	NO DEVIC	E MODIE	IOATIONO#	DI I 5004/6	DUD 04	T D	
BA 4: 0	RDNANCE SUPPORT EQUIPMENT		TOTAL COS	T IN THOUS	SANDS OF DO	NIAPS	SUBMAR	RINE TRAIN	ING DEVIC	E MODIF	ICATIONS/I	BLI: 5661/3	SBHD: 84	טו	
				1 114 111000		DELANO									
COST	ELEMENT OF COST	ID Code	Prior Years		FY 2000			FY 2001			FY 2002			FY 2003	
0022		0000	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cos
	SUBMARINE WARFARE (N87)														
TD002	SUBMARINE TRAINING DEVICE MODS				2,068			2,769			1,267				
	Minor Mods					2,068			2,769			1,267			
TD003	SMMTT/CC	А			8,490			8,857			8,929				
	Modifications			1	350	350	1	2,924	2,924	3	350	1,050			
	Modifications			1	5,742	5,742	1	1,465	1,465	1	5,043	5,043			
	Modifications			2	958	1,916	3	350	1,050	2	635	1,270			
	Modifications						2	810	1,620						
	Tech Support					482			1,798			1,566			
TD005	SMMTT/A	Α			8,740			14,955			6,409				
	Modifications			2	1,440	2,880	1	8,512	8,512	2	2,400	4,800			
	Modifications			1	2,261	2,261	1	2,040	2,040						
	Modifications			1	773	773	1	1,440	1,440						
	Modifications			1	1,080	1,080	1	1,108	1,108						
	Tech Support					1,746			1,855			1,609			
TD006	SUB COMN BASIC OPER TRAINER	А			648			628			652				
	Modifications			4	162	648	4	157	628	4	163	652			
	Modifications														
	Modifications														
	Continued on Next Page														

PAGE NO. 6

COST CODE	ATION/BUDGET ACTIVITY CUREMENT, Navy DNANCE SUPPORT EQUIPMENT ELEMENT OF COST UBMARINE WARFARE (N87) Continued	ID Code	Prior	T IN THOUS	SANDS OF DO	ID Code		OMENCLATU			ICATIONS/E	3LI: 56610/	SUBH: 84	\TD	
COST CODE	ELEMENT OF COST UBMARINE WARFARE (N87) Continued		Prior Years			LLARS	JODINIAN	IIIL IIIAIII	ING DEVIC	L WODII	ICA HONO/L	JEI. J00 10/	30DH. 04	+10	
CODE	UBMARINE WARFARE (N87) Continued		Years	Quantity	FY 2000										
	· ·		Total Cost	Quantity				FY 2001			FY2002			FY2003	
	· ·				Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Co
D011 SM		i													
	MMTT AN/BSY-1 TRAINER	А			5,954			6,429							
	Modifications			1	5,954	5,954	2	2,760	5,520						
	Modifications						1	903	903						
	Tech Support								6						
D012 SU	UBMARINE BAT FORCE TACT TRNG														
	Carry-On COSTD			1	106	106	1	107	107	1	200	200			
D014 SS	SN 774										2,068				
	Modifications									1	1,963	1,963			
	Modifications									1	105	105			
	Modifications														
т	TOTAL BLI 566100				26,006			33,745			19,525			0	
D6IN INS	ISTALLATION (Non-FMP)					1,081			0			1,228			
т	TOTAL BLI 566106				1,081			0			1,228			0	
	ontinued from previous Page					27,087	,		33,745			20,753			

CLASSIFICATION:

BUDGET PROCURE	MENT HIST	ORY AND	PLANNING EXHIE	BIT (P-5A)		Weapon System		A. DATE JUNE 2	2001		
B. APPROPRIATION/BUDGE	T ACTIVITY				C. P-1 ITEM NON	MENCLATURE			SUBHEAD		
Other Procurement,	Navy										
BA 4: ORDNANCE S	UPPORT E	QUIPMEN	IT		SUBMARINE	TRAINING DEVICE MO	TIONS	84TD			
					CONTRACT			DATE OF	SPECS	DATE	
Cost Element/	QUANTITY	UNIT	LOCATION	RFP ISSUE	METHOD	CONTRACTOR	AWARD	FIRST	AVAILABLE	REVISION	
FISCAL YEAR		COST	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLI	
		(000)									
		(000)									
FISCAL YEAR (00)											
TD003 SMMTT/CC											
H/W EPM	1	350	NAVSEA	N/A	WR	NUWCDIV NEWPORT, RI	Feb-00	Oct-00	YES		
S/W EPM	1	5,742	NAVSEA	N/A	WR	NUWCDIV NEWPORT, RI	Feb-00	Aug-02	YES		
CCS STVTS	2	958	NAVSEA	N/A	RCP	NAWC TSD ORLANDO	Aug-00	Feb-02	YES		
TD005 SMMTT/A											
ARCI-II-KITs	2	1,440	NAVSEA	Jul-99	SS/FF	LM MANASSAS, VA	May-00	Apr-01	YES		
PROTO ARCI-III	1	2,261	NAVSEA	Jul-99	SS/FF	LM MANASSAS, VA	May-00	Aug-02	YES		
EPM H/W	1	773	NAVSEA	Jul-99	SS/FF	LM MANASSAS, VA	May-00	Aug-00	YES		
SPECTRAL	1	1,080	NAVSEA	Jul-99	SS/FF	LM MANASSAS, VA	May-00	Sep-02	YES		
TD006 CBOT											
MK2B1C Weapons	4	162	NAVSEA	N/A	WR	NUWC NPT	Feb-00	Apr-02	YES		
WINZBTC Weapons	4	102	INAVSEA	IN/A	VVIX	NOVVC INF I	rep-00	Αρι-02	TES		
ΓD011 SMMTT/BSY1											
ARCI-IV	1	5,954	NAVSEA	Jul-99	SS/FF	LM MANASSAS, VA	May-00	Nov-01	YES		
TD012 Sub BFTT									\/ T 0		
COSTD	1	106	NAWC TSD	N/A	WR	NAWCTSD ORLANDO, FI	Feb-00	Nov-00	YES		

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

ITEM NO. 128 PAGE NO. 8

CLASSIFICATION:

BUDGET PROCURE	EMENT HIST	ORY AND	PLANNING EXHI	BIT (P-5A)		Weapon System	a. date JUNE 2001			
B. APPROPRIATION/BUDG	ET ACTIVITY				C. P-1 ITEM NON	MENCLATURE			SUBHEAD	
Other Procurement	, Navy									
BA 4: ORDNANCE S		QUIPMEN	IT		SUBMARINE	TRAINING DEVICE MO	ODIFICA T	TIONS		84TD
					CONTRACT			DATE OF	SPECS	DATE
Cost Element/	QUANTITY	UNIT	LOCATION	RFP ISSUE	METHOD	CONTRACTOR	AWARD	FIRST	AVAILABLE	REVISIONS
FISCAL YEAR		COST	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLI
TIOOAE TEAR		(000)	01 1 00	DATE	a i ii E	AND EGGATION	DATE	BELIVEICI	NOW	AVAILABLE
FISCAL YEAR (01)										
TD002 Intel Graphics	var	2,500	NAVSEA	n/a	WR/RCP	NUWC Kpt	Jun-01	Sep-01	Yes	
TD003 SMMTT/CC										
Weapons	1	2,924	NAVSEA	N/A	WR	NUWCDIV NEWPORT, RI	Jan-01	Aug-03	YES	
COTS EPM	1	1,465	NAVSEA	N/A	WR	NUWCDIV NEWPORT, RI	Jan-01	Aug-02	YES	
MK2 B1C Kits	3	350	NAVSEA	N/A	WR	NUWCDIV NEWPORT, RI	Jan-01	Feb-05	YES	
CCS STVTS	2	810	NAVSEA	N/A	WR	NAWC TSD ORLANDO	Jan-01	Sep-02	YES	
TD005 SMMTT/A										
ARCI-III EPM	1	8,512	NAVSEA	Mar-01	SS/IF OPT	LM MANASSAS, VA	Jun-01	Aug-03	YES	
ARCI-II Kit	1	2,040	NAVSEA	Mar-01	SS/IF OPT	LM MANASSAS, VA	Jun-01	Feb-04	YES	
ARCI-II Kit	1	1,440	NAVSEA	Mar-01	SS/IF OPT	LM MANASSAS, VA	Jun-01	Jun-02	YES	
COTS	1	1,108	NAVSEA	Mar-01	SS/IF OPT	LM MANASSAS, VA	Jun-01	Aug-02	YES	
TD006 CBOT										
TMA	4	157	NAVSEA	N/A	WR	NUWCDIV NEWPORT, RI	Jan-01	Apr-02	YES	
TD011 SMMTT/BSY1										
ARCI-IV Kits	2	2,760	NAVSEA	Mar-01	SS/IF OPT	LM MANASSAS, VA	Jun-01	Mar-02	YES	
ARCI-IV MPCS	1	903	NAVSEA	Mar-01	SS/IF OPT	LM MANASSAS, VA	Jun-01	Jan-02	YES	
ΓD012 Sub BFTT										
COSTD	1	107	NAWC TSD	N/A	WR	NAWCTSD ORLANDO, FI	Feb-01	Nov-01	YES	
D. REMARKS										
J. KLIWAKKO										

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

ITEM NO. 128 PAGE NO. 9

CLASSIFICATION:

BUDGET PROCURE	MENT HIST	ORY AND	PLANNING EXHIE	BIT (P-5A)		Weapon System		A. DATE JUNE 2	:001	
B. APPROPRIATION/BUDGE	T ACTIVITY				C. P-1 ITEM NON	MENCLATURE			SUBHEAD	
Other Procurement,	Navy									
BA 4: ORDNANCE S	UPPORT E	QUIPMEN	IT		SUBMARINE	TRAINING DEVICE MO	DIFICA	TIONS		84TD
					CONTRACT			DATE OF	SPECS	DATE
Cost Element/	QUANTITY	UNIT	LOCATION	RFP ISSUE	METHOD	CONTRACTOR	AWARD	FIRST	AVAILABLE	REVISIONS
FISCAL YEAR		COST	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLE
1.00/12 1.2/11		(000)	3 33	57.12		7.1.1.5 2.5 0.7.1.10.1.		522.72.77		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
FISCAL YEAR (02)		(000)								
TD003 SMMTT/CC										
Mk2 B1C Kit	3	350	NAVSEA	N/A	WR	NUWCDIV NEWPORT, RI	Jan-02	Nov 02	YES	
Mk2 B1C Non-Wep	1	5,043	NAVSEA	N/A	WR	NUWCDIV NEWPORT, RI	Jan-02	Jan 05	YES	
CCS STVTS	2	635	NAVSEA	N/A	WR	NAWC TSD ORLANDO	Jan-02	May 03	YES	
TD005 SMMTT/A										
ARCI-III Kits	2	2,400	NAVSEA	Jul-00	SS/FF OPT	LM MANASSAS, VA	Feb-02	Feb-03	YES	
TD006 CBOT										
MK1/2 Enhancements	4	163	NAVSEA	N/A	WR	NUWCDIV NEWPORT, RI	Jan-02	Dec-02	YES	
TD012 Sub BFTT										
COSTD HLA	1	200	NAWC TSD	N/A	WR	NAWCTSD ORLANDO, FI	Jan-02	Nov-02	YES	
TD014 Va Class										
Torp Room	1	1,963	NAVSEA	TBD	TBD	TBD	Feb-02	Aug-03	YES	
VLS	1	105	NAVSEA	TBD	TBD	TBD	Feb-02	Aug-03	YES	
D DEMARKS					1		<u> </u>			
D. REMARKS										

P-1 SHOPPING LIST Classification: DD Form 2446-1, JUL 87 128 UNCLASSIFIED ITEM NO. PAGE NO. 10

UNCLASSIFIED

TIME PHASED REQUIREMENT SCHEDULE P-23					Oth	er P	rocı	urem	ent,	Nav	y/B	A-4	Sub	omai dific	atio	Trai		Dev				JUNE	= 200)1					
	1	FY 20	3	4	1	FY 20	01 3	4	1	FY 200	3	4	1	FY 20	03 3	4	1	FY 200	3	4	1	FY 20	05 3	4	1	FY 200)6 3	4	LATER
		_	Ŭ		L .	_	Ŭ				Ů		L .	_	ŭ		<u> </u>	_	Ů		Ŀ	_	Ů		<u>'</u>	_	Ů	,	
ACTIVE FORCE INVENTORY (P) (P)																													
SCHOOLS/OTHER TRAINING (P)		15				19				15																			
OTHER (P)																													
TOTAL PHASED REQ (C)	0	15	15	15	15	34	34	34	34	49	49	49																	
ASSETS ON HAND (BP)																													
DELIVERY FY 98 & PRIOR (P)																													
FY 99 & PRIOR (P)																													
FY 00 (P)	0	15	0	0																									
FY 01 (P)					0	19	0	0																					
FY 02 (P)									0	15	0	0																	
FY 03 (P)																													
FY 04 (P)																													
FY 05 (P)																													
FY 06 (P)																													
To Complete (P)																													
TOTAL ASSETS (C)	0	15	15	15	15	34	34	34	34	49	49	49																	
QTY OVER (+) OR SHORT (-)	0	0	0	0	0	0	0	0	0	0	0	0																	
D. REMARKS			E.		RQMT	(QTY)	1			TOTAL	RQM	T	INSTA	LLED		HAND			98 & PF		1	UNFL	JNDED]		<u> </u>	<u> </u>		
			1.	APPN	1 -										AS O	F 6/1/9	9	UNI	DELIVE	RED					-				
			2.	APPN	1 -																								
			3.			IENT LE	ADTIN	1E			ADMIN	N		INITIA	AL ORD	DER				REOR	DER				-				

DD for 2447, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

ITEM NO 128 PAGE NO 11

UNCLASSIFIED

				EMENTS SCH NSTALLATIO BA				M NOMENCLATUR			s/SUBH	: 84TD	JUNE	2001	
		GET ACTIVITY	-4					Installing Agen	t						
1ST QTF	?	2ND QTR		3RD QTR		4TH QTR		1ST QTR		2ND QTR		3RD QTR		4TH QTR	
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY
	•		F	Y 2000	•		•		•		FY 2	001	•		•
			15								19				
			F	Y 2002							FY 2	003			
			15												

P-1 SHOPPING LIST

ITEM NO. 128

PAGE NO. 12

CLASSIFICATION:

UNCLASSIFIED

				EMENTS SCH NSTALLATIO				M NOMENCLATUR			s/SUBH	: 84TD	JUNE	2001	
		GET ACTIVITY It, Navy / BA	-4					Installing Agen	t						
1ST QTF	?	2ND QTR		3RD QTR		4TH QTR		1ST QTR		2ND QTR		3RD QTR		4TH QTR	
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY
	•		F	Y 2004	•		•				FY 2	005	•		•
			F	Y 2006							FY 2	007			

P-1 SHOPPING LIST

ITEM NO. 128

PAGE NO. 13

CLASSIFICATION:

EXHIBIT P-43 SIMULATO	B OR AND TRA	AINING	DEVICE	JUSTIFI	CATI	ON				DATE:												JUNE 2	001			
Appropria	ation/P-1 Line	tem								Weapon	Syste	m								IOC Date						
	rement, Nav	y / LI: 5																								
Training			Ready for																							
Device		Delivery	•	Student		r Years		2000		2001		2002		2003		/ 2004		2005		2006		2007		complete		Γotal
by Type	Site	Date	Date	Throughput	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
TD002 SUBM	I IARINE TRAIN	IING DE'	VICE MOI	l OS																						
				N/A			VAR	2,068	VAR	2,769	VAR	1,267														
V/ (()	VAIC	V/IIX	V/IIX	14// (V/IIX	2,000	V/ ((\)	2,700	V/	1,207														
Total					0	0	0	2,068	0	2,769	0	1,267	0	0	0	0	0	0	0	0	0	0	0	0	0	6,104

Description

(TD002) SUBMARINE TRAINING DEVICE MODS

Provides funding for minor modifications which are upgrades to submarine training systems which are centrally managed systems.

These improvements/upgrades are required to keep training systems compatible with equivalent changes made to fleet operational equipment and to change trainer capabilities to meet emergent training requirements.

EXHIBIT P-4	3									DATE:																
	OR AND TRA		DEVICE	JUSTIFIC	CATI	ON																JUNE 2	001			
	ation/P-1 Line									Weapon	Syste	m								IOC Date	:					
	rement, Navy	y / LI: 56																								
Training			Ready for	_																						
Device		Delivery	_	Student		or Years		2000		Y 2001		2002		2003		2004		/ 2005		2006		2007		omplete		Fotal
by Type	Site	Date	Date	Throughput	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
H/W EPM	MULTI-MISSIC						,	250																		
S/W EPM	NUWC Npt NUWC Npt	Oct-00 Aug-02	n/a n/a	n/a n/a			1	350 5,742																		
STVTS TT1	NSS Grtn	Feb-02	Feb-02	3,930			1	958																		
STVTS TT2	NSTCP PH	Jun-02	Jun-02	2,016			1	958																		
Weapons	NUWC Npt	Aug-03	n/a	n/a				550	1	2,924																
COTS EPM	NUWC Npt	Aug-02	n/a	n/a					1	1,465																
B1C #3	NSS Grtn	Nov-02		2,160					1	350																
B1C #4	NSTCP PH	Mar-02	Jun-02	2,016					1	350																
B1C #5	NSTCP Sdgo	Jul-02	Sep-02	540					1	350																
STVTS #5	NSTCP Sdgo	Sep-02	Sep-02	388					1	810																
STVTS #6	TTF KINGS BA	Jan-03	Jan-03	312					1	810																
B1C #6	TTF KB	Nov-02	Jan-03	312							1	350														
B1C #7	STF Nor	Feb-03	May-03	1,485							1	350														
B1C #1	NSTCP PH	Feb-04	May-04	2,016							1	350														
Non Weps	NUWC Npt	Jan-05	n/a	n/a							1	5,043														
STVTS #7	STF Nor	May-03	May-03	1,485							1	635														
STVTS #1	NSTCP PH	May-04	May-04	1,890							1	635														
Total					0	0	4	8,008	7	7,059	6	7,363														

Description
(TD003) SUB MULTI-MISSION TEAM TRAINER (CCS)
To achieve desired submarine force readiness levels, it is necessary to construct highly sophisticated shorebased training facilities capable of training submarine combat system team personnel in all aspects of submarine approach, attack and surveillance operations in a controlled, simulated environment.

EXHIBIT P-43	3									DATE:																
SIMULATO	R AND TRA	INING I	DEVICE	JUSTIFIC	CATIC	N																JUNE 2	2001			
Appropria	ation/P-1 Line	Item								Weapon :	Syster	m								IOC Date	!					
Other Procui	rement, Navy	/ LI: 56																								
Training			Ready for																							
Device		Delivery	Training	Student		or Years		2000		/ 2001		2002		2003		/ 2004		Y 2005		2006		/ 2007		Complete		Total
by Type	Site	Date	Date	Throughput	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
TD005 SMMT		A 04	lul 04	4.040				4 440																		
	NSS Grtn NSTCP PH	Apr-01 Jul-01	Jul-01 Oct-01	1,612 1,736			1	1,440																		
	EPM LM	Aug-02		1,736 n/a			1	1,440 2,261																		
ARCI-III H/W		Aug-02 Aug-00	n/a n/a	n/a			1	773																		
	EPM LM	Aug-00 Aug-02	n/a	n/a			'	1,080																		
ARCI-III EPM		Aug-03	n/a	n/a			'	1,000	1	8,512																
ARCI-II #6	TTF KB	Sep-02	Jan-03	312					1	2,040																
	NSTCP Sdgo	Jun-02	Sep-02	540					1	1,440																
	EPM LM	Aug-02	n/a	n/a					1	1,108																
	STF Norva	Feb-03	May-03	1,485						.,	1	2,400														
	NSTCP PH	Feb-04	May-04	2,016							1	2,400														
			.,	,-								,														
Total					_	٥	5	6,994	4	13,100	2	4,800														
i otai					"	")	0,994	4	13,100		4,000														

Description
(TD005) SUB MULTI-MISSION TEAM TRAINER/A
The AN/BQQ-5 Series Sonar Systems are installed aboard SSN Class submarines. The Submarine Multi Mission Team Trainer Acoustic simulates the digital data processing and graphic displays of the associated tactical system.

EXHIBIT P-43										DATE:																
	OR AND TRA ation/P-1 Line		DEVICE	JUSTIFIC	AHO)N				Weapon S	Sveton	<u> </u>								IOC Date		JUNE 2	2001			
	rement, Navy		861							vveapon	yster	1								IOC Dati	5					
Training	l l l l l l l l l l l l l l l l l l l	77 21.00	Ready for	Average																						
Device	0.1	Delivery	_	Student		or Years		2000		/ 2001		Y 2002		/ 2003		2004		2005		2006		2007		omplete		otal
by Type	Site	Date	Date	Throughput	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cos	t Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
	OMN OPER	TRAINER	! {																							
MK2B1C Wej		Apr-02	n/a	n/a			1	162																		
MK2B1C Wel	NSS Grtn NUWC Npt	Apr-02 Apr-02	May-02 n/a	1,000 n/a			3	486	1	157																
TMA	NSS Grtn	Apr-02 Apr-02	May-02	1,000					3	471																
MK 1/2 ENH		Dec-02	n/a	n/a					J	471	1	163	3													
MK 1/2 ENH		Dec-02	Jan-00	1,000							3	489														
				,																						
Total					0	0	4	648	4	628	4	65	,													
]																									
Description																										
	COMN COM of these device						0 00=-	onnal	ho ===	uiro basi -	ond -	duaraa-l	onerst	or trainin												
me purpose	oi triese devic	es is to pr	ovide pipe	iii ie iraining	เบ รนติ	manne ford	e pers	onnei W	no req	uire pasic	and a	uvanced	operati	oi แลเทเก _็	J.											

128

EXHIBIT P-43	3		DATE:																							
	R AND TRA		DEVICE	JUSTIFIC	ATIO	N																JUNE 2	001			
Appropri	ation/P-1 Line	Item								Weapon	Syste	m								IOC Date	;					
	rement, Navy	/ LI: 56	61																							
Training			Ready for	Average																						
Device		Delivery	Training	Student		r Years		2000		/ 2001		2002		2003		/ 2004		2005		2006		Y 2007		omplete		otal
by Type	Site	Date	Date	Throughput	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
ARCI-IV ARCI -IV #3 ARCI -IV #4		MODIFICA Nov-01 Nov-01 Mar-02	n/a n/a Feb-02 Jun-02	n/a 3,930 2,016			1	5,954	1 1	2,760 2,760																
	ЕРМ LM	Jan-02	n/a	n/a					1	903																
Total					0	0	1	5,954	3	6,423	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	12,377
Description		•		•														u.						J.		

(TD011) SMMTT AN/BSY-1 TRAINER

AN/BSY-1 trainers support shorebased training for crews of SSN 751 Class submarines fitted with AN/BSY-1 the integrated Combat Control / Acoustic (CC/A).

CC/A Team Trainers support subteam training in combat control and acoustics as well as full combat system team training.

EXHIBIT P-43					—					DATE:																
	R AND TR		DEVICE	JUSTIFIC	CHAC	N N																JUNE 2	2001			
	ation/P-1 Line									Weapon	Syste	m								IOC Date	9					
	rement, Nav	y / LI: 56																								
Training			Ready for			.,	=>/-				_		_		_		_		_	,	_				_	
Device	0.1	-	Training	Student		or Years		2000		2001	_	/ 2002		/ 2003		Y 2004		2005		2006		2007		omplete		Total
by Type	Site	Date	Date	Throughput	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
TDO12 SUBM	I MARINE BATT	I LE FOR(I CE TAC TI	S NI	l																					
	Sqdn 1 Pearl H			I	l		1	106																		
	Sqdn 7 Pearl F		Nov-01		l		•	100	1	107																
COSTD HLA		Nov-02			l						1	200														
					l																					
					l																					
					l																					
					l																					
					l																					
					1																					
					1																					
					1																					
					l																					
					l																					
					l																					
					l																					
					l																					
					l																					
					l																					
					l																					
					1																					
					l																					
					l																					
					l																					
					1																					
					1																					
					1																					
					1																					
					1																					
					l																					
					1																					
					1																					
					l																					
Total					0	0	1	106	1	107	1	200	0	0	0	0	0	0	0	0	0	0	0	0	3	413
					ı	Ĭ	•	.00				200	ľ	Ŭ	Ŭ	Ŭ	ŭ	ŭ	Ŭ	ŭ		ŭ	ŭ	ŭ	Ŭ	
					l																					
Description	•			•														- U								
(TD012) SUB	MARINE BAT	TI F FOR	CF TACT	ICAL TRAIN	ING (B	FTT) DEVI	CF MO	DS																		

(TD012) SUBMARINE BATTLE FORCE TACTICAL TRAINING (BFIT) DEVICE MODS

The Submarine BFTT device consists of a carry-on unit that will provide the CO/OOD with a display depicting the position and modes of each participant and target in the BFTT scenario.

It will consist of a computer and interface equipment with software designed to interface with and interpret the BFTT system, and to receive and transmit tactical data using own ship's communications equipment.

128

EXHIBIT P-43	3									DATE:																
	OR AND TRA		DEVICE	JUSTIFIC	CATIC)N				l												JUNE 2	:001			
	ation/P-1 Line									Weapon S	Syster	n								IOC Date	9					
Other Procu	rement, Navy	y / LI: 5€	361							<u> </u>																
Training			Ready for								ı															
Device	0	Delivery		Student		r Years		2000		Y 2001		Y 2002		2003		2004		2005		2006		Y 2007		omplete		Γotal
by Type	Site	Date	Date	Throughput	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
Torp Room	Trainer Mods NSS Grtn NSS Grtn	Aug-03 Aug-03		29 10							1	1,963 105														
Total					0	0	0	0	0	0	2	2,068	0	0	0	0	0	0	0	0	0	0	0	0	2	2,068
Description TD0tbd NSSN	V	ı Noon		0 .) .																						

Procures modifications for the NSSN (Virginia Class) unique devices.